#1

MEMORANDUM

To: Parks and Recreation Board

From: Jesus M. Olivares, Director
Parks and Recreation Department

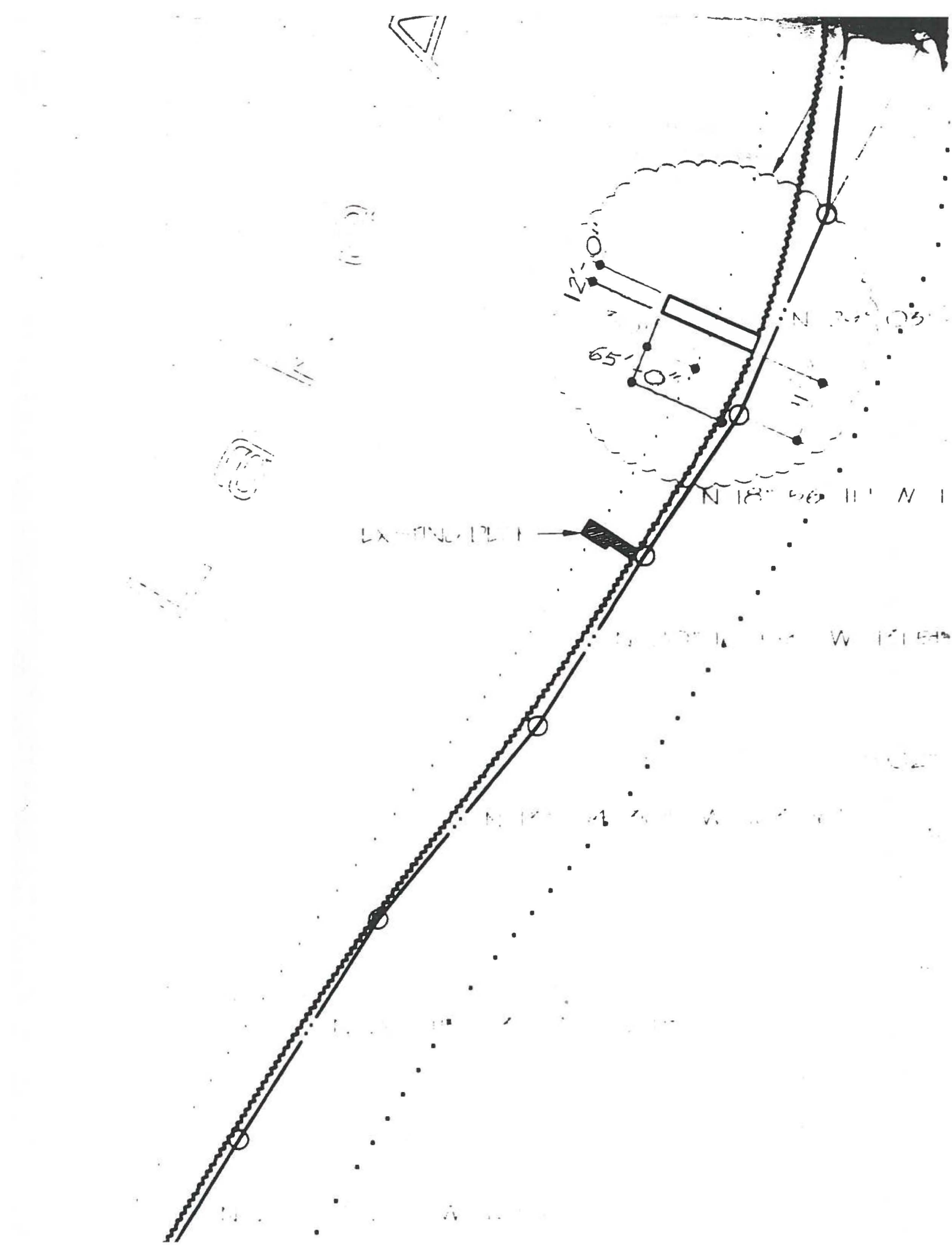
Date: June 24, 2003

Subject: Construction of Mueller dock at 4909 Highway 2222.
File No. SP-03-0033DS.

A request has been received from Gene Lucas on the behalf of R. G. JR Mueller to construct a boat dock on Lake Austin.

The Parks and Recreation Department (PARD) staff has reviewed plans for the proposed project and finds they do not meet the requirements of Article XIII, Section 25-2-1176, (Regulations for the Construction of Boat Docks) of the Land Development Code. The proposed dock extends 65' from the shoreline. The location of the proposed dock is just East of the 360 bridge on the North shore. This is the highest traffic area on the lake. A dock may not extend more than 30' from the shoreline unless the Parks and Recreation Board determines that the dock will not create a hazard and approves the construction of the dock. The Parks and Recreation Board shall make a recommendation on the distance a dock can extend without creating a hazard.

Jesus M. Olivares, Director
Parks and Recreation Department


12'-0"
65'-0"

#2

MEMORANDUM

To: Parks and Recreation Board

From: Jesus M. Olivares, Director
Parks and Recreation Department

Date: June 24, 2003

Subject: Site Plan Correction at 3002 Scenic Drive
File No. SP-01-0251DS

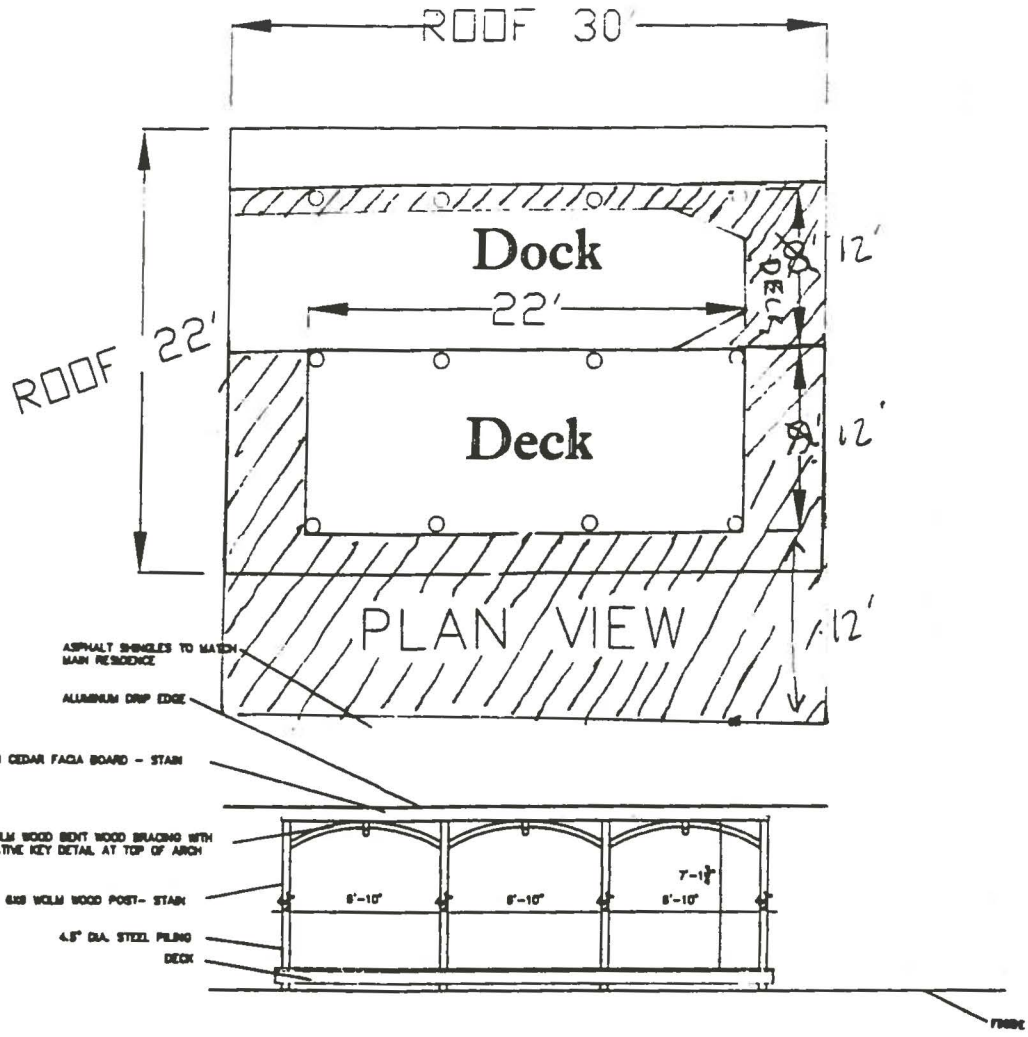
A site plan correction has been received from Bruce Aupperle on the behalf of Jerry and Johnstone Bell to change the dimensions and position of a boat dock that has been constructed and red tagged at 3002 Scenic Drive. The dock was built not in accordance to the approved site plan.

The Parks and Recreation Department (PARD) staff has reviewed the site plan correction and finds they do not meet the requirements of Article XIII, Section 25-2-1176, Parts B and D, (Requirements for the Construction of Boat Docks) of the Land Development Code. Parks and Recreation Board approved an 8'X22' boat dock placed parallel to the shore. Parks and Recreation Board gave variances for this dock to be constructed. The dock that was built is 12'X30'. The 30' measured parallel to the shoreline is 39% of the shoreline frontage. The approved 22' was 29% of the shoreline frontage. The approved dock was to be dug into the shore 3' and extend 5' from the original shore. If the dock were dug into the shore, the dock would have extended into the slough 20% of the soughs width. The dock was not dug into shore and extends 12' from shore. The dock is now 43% of the slough width.

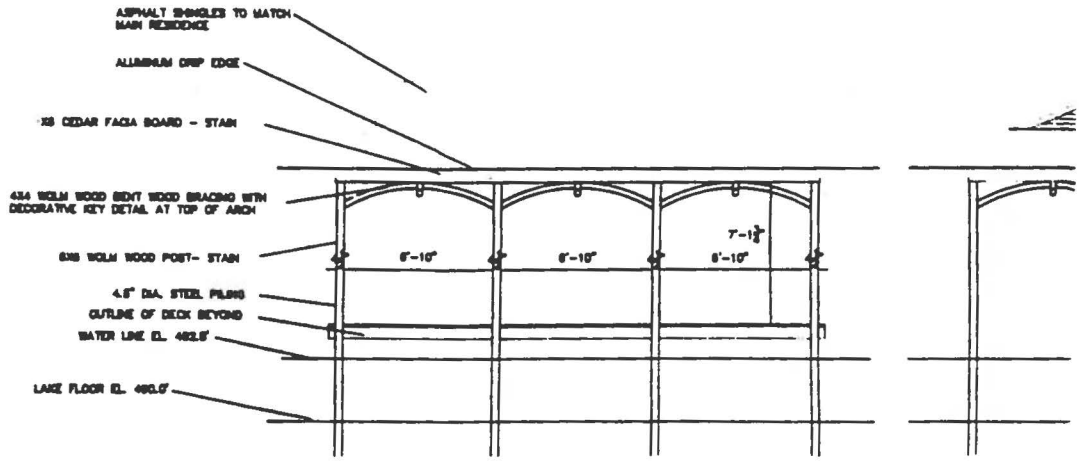
The Parks and Recreation Board shall make a recommendation on the distance a dock may extend into the slough and approval by the Parks and Recreation Board is required for a structure to be greater than 20% of the shoreline width.

Jesus M. Olivares, Director
Parks and Recreation Department

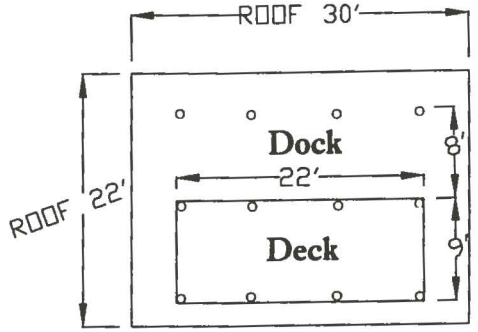
= NOT APPROVED



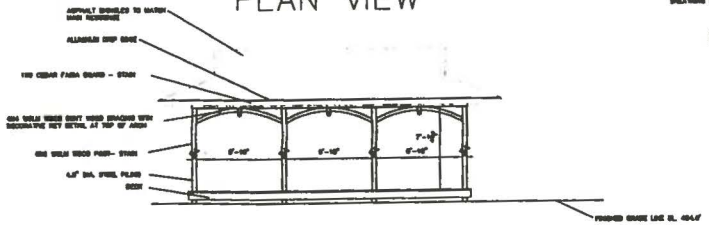
SHORE VIEW



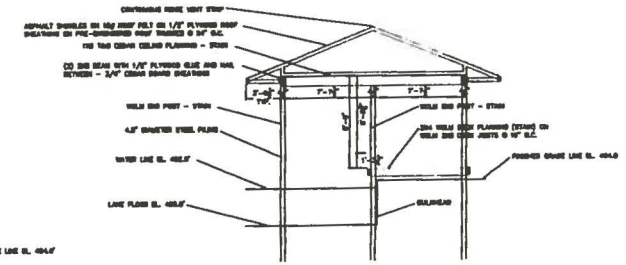
LAKE VIEW SID



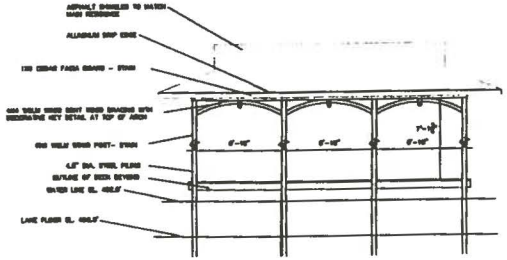
PLAN VIEW



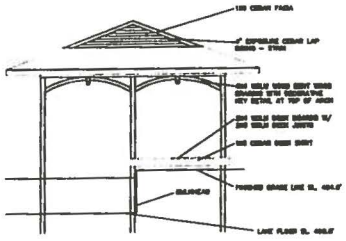
SHORE VIEW



CROSS SECTION



LAKE VIEW



SIDE VIEW

APPROVED AND RELEASED
APR 19 2002
CITY OF AUSTIN
4-18-02

All responsibility for the adequacy of these plans remain with the engineer who prepared them. In approving these plans, the City of Austin must rely upon the adequacy of the work of the design engineer

Development Review and Inspection Department Date

AUPPERLE COMPANY
Engineering, Planning & Development Services
10000 Quicksilver Drive Austin, Texas 78729 512 425-7888

3002 Scenic Drive
BOAT DOCK SCHEMATIC

DESIGNED:
APPROVED:
SCALE: 1" = 5'
3002 Scenic Drive
DATE: May 2001
SHEET 1 OF 5

#3

MEMORANDUM

To: Parks and Recreation Board

From: Jesus M. Olivares, Director
Parks and Recreation Department

Date: June 24, 2003

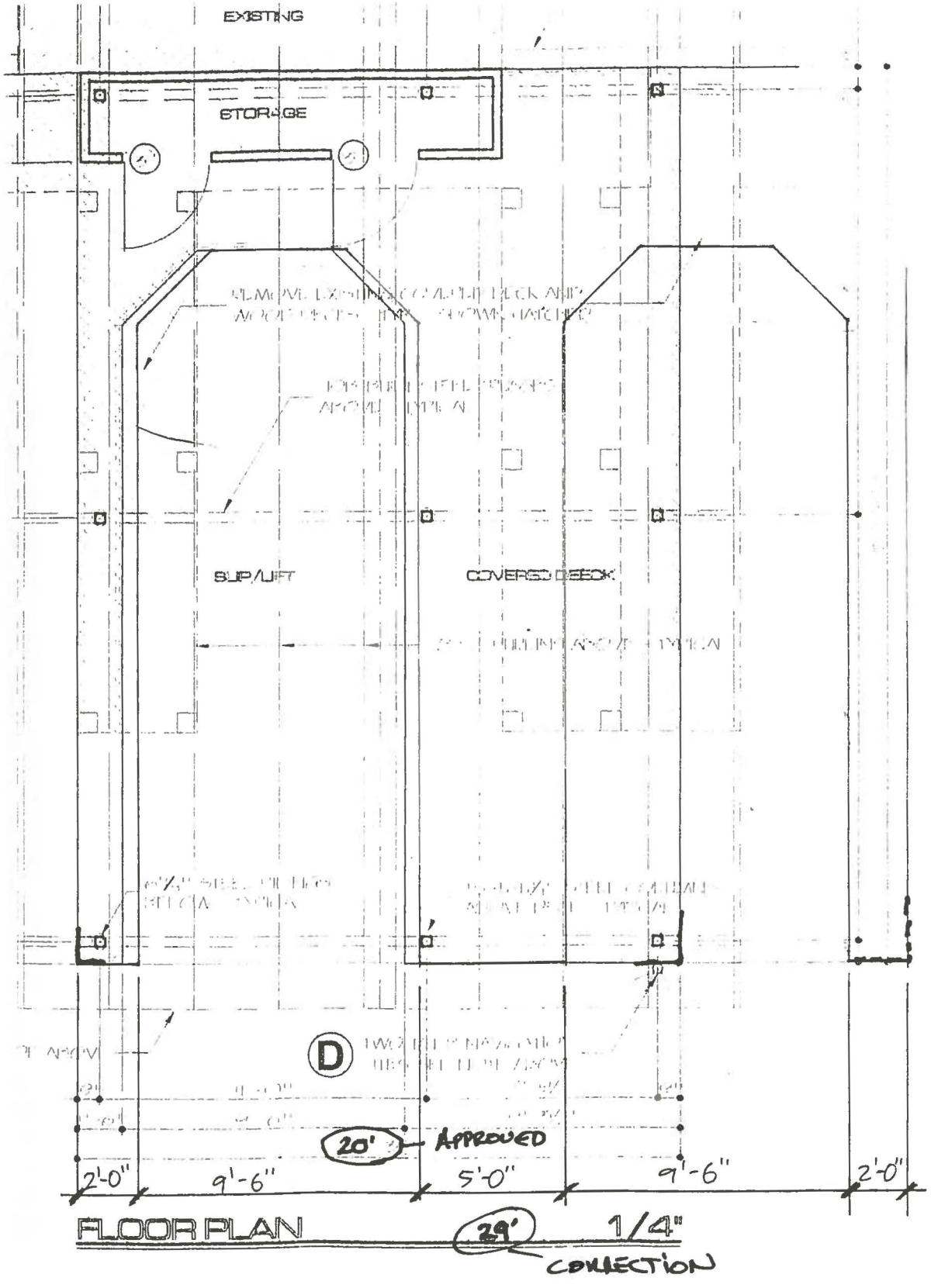
Subject: Site Plan Correction at 2808 Scenic Drive
File No. SP-03-0115DS

A site plan correction has been received from Jim Kaighin to change the dimensions and number of slips of a boat dock at 2808 Scenic Drive.

The Parks and Recreation Department (PARD) staff has reviewed the site plan correction and finds they do not meet the requirements of Article XIII, Section 25-2-1176, Part D, (Requirements for the Construction of Boat Docks) of the Land Development Code. A permit was issued for the construction of a single slip dock. The request is to add an additional slip. Dimensions of the dock have changed from 20' to 29' measured parallel to the shoreline. The Proposed correction would exceed the 20% of the shoreline frontage. Approval by the Parks and Recreation Board is required for a structure to be greater than 20% of the shoreline width.

Approval by the Parks and Recreation Board is required for a structure to be greater than 20% of the shoreline width.

Jesus M. Olivares, Director
Parks and Recreation Department



FLOOR PLAN

29'

1/4"

COLLECTION

E

B

F

SITE PLAN

DRAWING	KL
A - LAKE LEVEL ELEVATIO	
B - EXISTING SHORELINE	
C - DOCK BLDG. SETBACK	
D - NAVIGATION LIGHTS	
E - 75' CWQZ LINE	
F - CONSTRUCTION LIMITS	

#4

Information Packet

For

QUAIL CREEK PARK

Austin Clean Water Program
Little Walnut Quail Creek

CIP No. 4570-237-8579

City of Austin
Austin Clean Water Program

on behalf of the
Water and Wastewater Utility

June 2003

INTRODUCTION

The Austin Clean Water Program (ACWP), on behalf of the Water and Wastewater Utility, hereby requests a permanent and temporary use agreement for the construction, operation and maintenance of an 18-inch wastewater line, CIP No. 4570-237-8579. In conjunction with this project, the ACWP is requesting authorization to build a portion of the wastewater line in the Quail Creek Park, north of Rutland Drive. This authorization will require action by the City pursuant to Chapter 26 of the Texas Parks and Wildlife Code.

The project will include the construction of an 18-inch gravity wastewater line and related appurtenances parallel to the existing 24-inch line located in the bed of Quail Creek. This project will alleviate sanitary sewer overflows within the existing lines. These improvements are also consistent with the City's commitment to the Texas Council on Environmental Quality and to the U.S. Environmental Protection Agency (USEPA) to eliminate sanitary sewer overflows in the City of Austin.

PROJECT NEED AND JUSTIFICATION

This project is being accomplished under an administrative order of the USEPA in order to eliminate the occurrence of sanitary sewer overflows (SSO), the presence of which threatens human health and the environment. For this particular project, this elimination of SSO is being accomplished by the installation of an 18" parallel line to relieve the overflow conditions in the existing 24" pipe, and the installation of 36" pipe to replace a 24" pipe running parallel to another 30" pipe.

In 2002, the City of Austin selected the engineering firm of Kurkjian Engineering Corporation (KEC) to prepare a Route Study and engineering plans for parallel and replacement lines to relieve SSO in this area. Through the Route Study alternative routes and pipe sizes were considered. To date, this project is in the 60% design phase.

PROJECT DESCRIPTION AND SCHEDULE

The proposed wastewater lines are approximately 6,800 linear feet in total length with 330 linear feet being located within the Quail Creek Park. The construction will generally require a 20-foot wide permanent easement and a 15-foot wide temporary working space easement along the line with another 1330 square foot temporary construction easement in one area and a 2600 square foot temporary storage area. Approximately 250 feet of this line will be installed by open cut, with the remaining 80 feet installed by bore. In order to accomplish the bore, a bore pit will be required with dimensions of approximately 40-feet by 15-feet.

The sewer will be an 18-inch diameter Centrifugally Cast Fiber Reinforced Polymer Mortar Pipe buried between 10 and 25 feet deep. The project has an anticipated total construction cost of $3,600,000. It is scheduled for bidding in the fall of 2003 and will take approximately 15 months to complete. Disturbance within the park is anticipated to last approximately six to eight weeks.

SHORT TERM EFFECTS OF CONSTRUCTION

Short-term effects during construction will be minimal. Disturbance of the area within the permanent and temporary use agreement will include preconstruction clearing, trenching, pipe installation, temporary spoil and material storage, heavy vehicle tracking and soil compaction. There will be no traffic impacted by the construction of this project. No trees within the area covered by the use agreement will be removed. There will be short-term riparian disturbance within the easement; however, no long-term

effects to the riparian habitat are anticipated since all disturbed areas will be restored and revegetated.

LONG TERM EFFECTS OF CONSTRUCTION

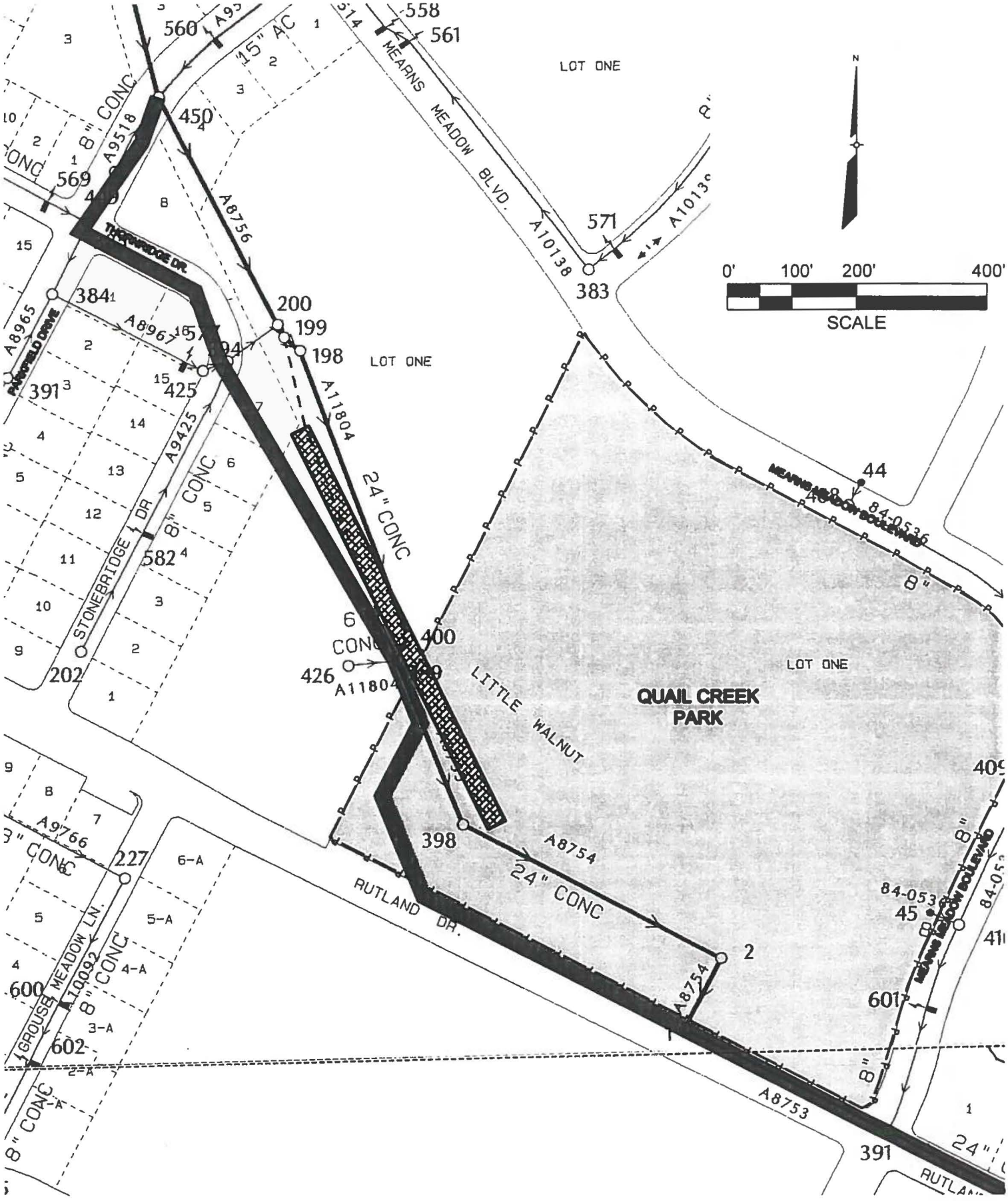
The only long-term effects to the Quail Creek Park as a result of the proposed construction, operation and maintenance of the wastewater pipe will be the restriction of building structures or similar improvement within the permanent use agreement area. This is consistent with the restrictions now placed on the area which is within the 100-year floodway of Walnut Creek; therefore, no long-term effects due to the project are anticipated.

RESTORATION PLAN

All disturbed land will be restored and revegetated to a condition equal to or better than that which existed prior to construction. A detailed tree survey and evaluation were performed by the engineer and is attached hereto. That survey determined that approximately 19 trees would be affected by the construction. It is anticipated that none of these trees will be removed.

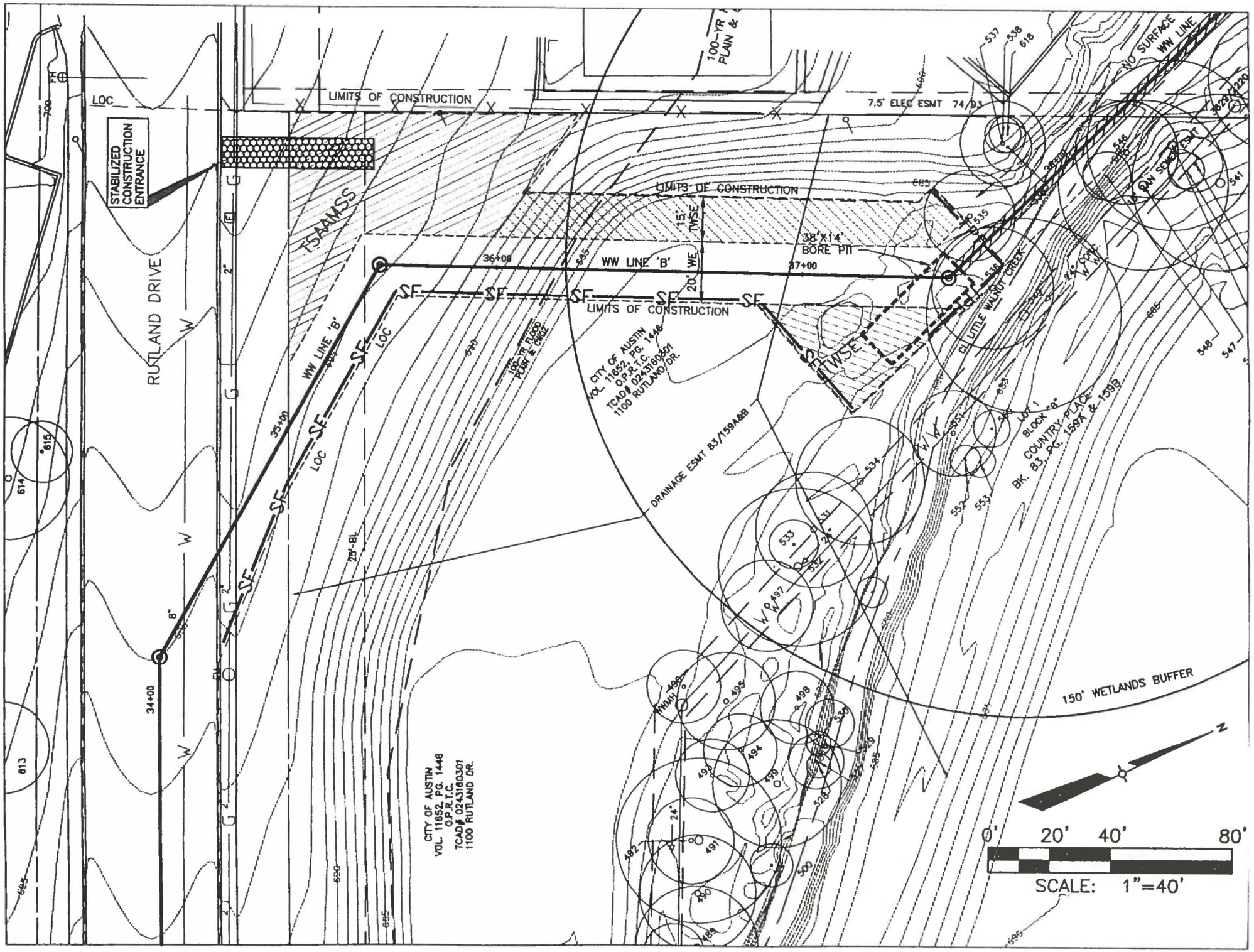
All site restoration will be completed in accordance with the *Standard Specifications and Construction Standards* of the City of Austin. All construction and site restoration for that portion of the project within parkland will also be completed in accordance with PARD's *Construction in Parks Specifications.*

As with all City construction projects, the Contractor will be required to provide a one-year warranty of his work including such restoration, revegetation and tree replacement.



LITTLE WALNUT QUAIL CREEK PARK
PROJECT LOCATION QUAIL CREEK PARK

Austin Clean Water Program


LIMITS OF CONSTRUCTION
STABILIZED CONSTRUCTION ENTRANCE
RUTLAND DRIVE
TSAAMSS
WW LINE 'B'
36+00
37+00
38'X14' BORE PIT
15' TWSE
20' WE
7.5' ELEC ESMT 74/93
100-YR FLOOD PLAIN & CREEK
CITY OF AUSTIN VOL. 11652, PG. 1446 O.P.R.T.C. TCAD# 0243160301 1100 RUTLAND/DR.
DRAINAGE ESMT 83/159A&B
LOT 1 BLOCK "B" COUNTRY PLACE BK. 83, PG. 159A & 159B
150' WETLANDS BUFFER
NO SURFACE WW LINE
34+00
35+00
SCALE: 1"=40'
0' 20' 40' 80'
N

ACWP
Little Walnut Quail Creek

Tree Survey

Tag Number	Size (inches)	Description
535	15	Sycamore
536	20	Willow
537	14	Hackberry/Celtis Spp.
538	6	Hackberry/Celtis Spp.
539	8	Hackberry/Celtis Spp.
540	23	Hackberry/Celtis Spp.
541	29	Sycamore
542	9	Hackberry/Celtis Spp.
543	28	Willow
546	17, 14	Willow
547	28	Willow
548	8	Hackberry/Celtis Spp.
549	32, 14	Willow
550	6, 4	Hackberry/Celtis Spp.
551	14	Hackberry/Celtis Spp.
552	5	Hackberry/Celtis Spp.
553	5	Hackberry/Celtis Spp
617	6	Hackberry/Celtis Spp
618	6	Hackberry/Celtis Spp.

Abbreviations

TWSE – Temporary Working Space Easement

TSAAMSS – Temporary Staging Area and Material Storage Site

WE – Wastewater Easement

SF – Silt Fence

Notes

1. Wastewater lines with hatched cross section are to be bored.
2. Wastewater lines with no hatch are to be open cut.
3. Circles at changes is horizontal alignment indicate manholes.

QUAIL CREEK PARK - PHOTOS

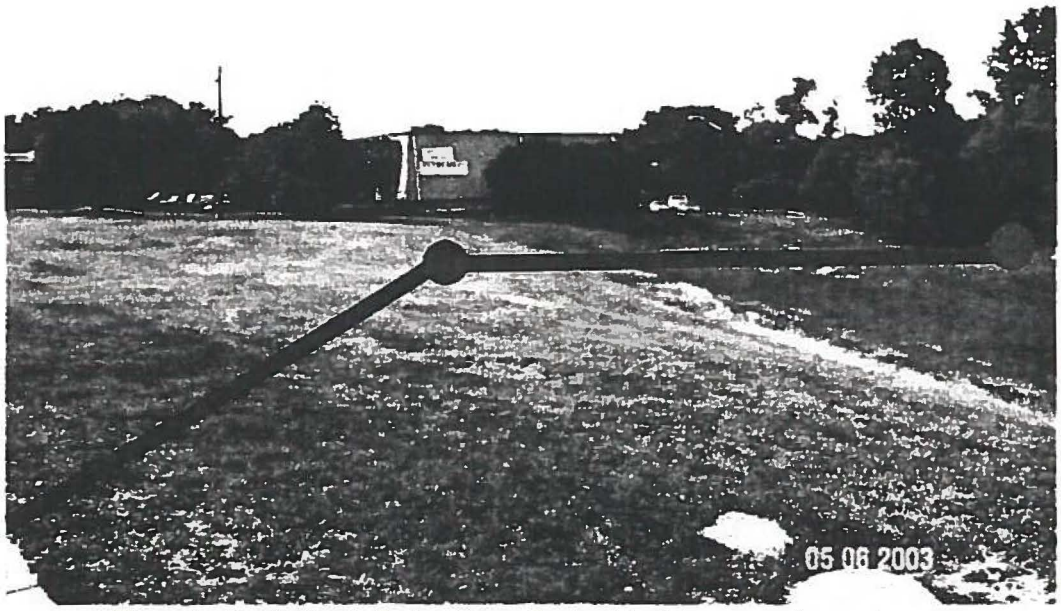


Photo 1. Quail Creek Park – From Rutland looking towards apartments

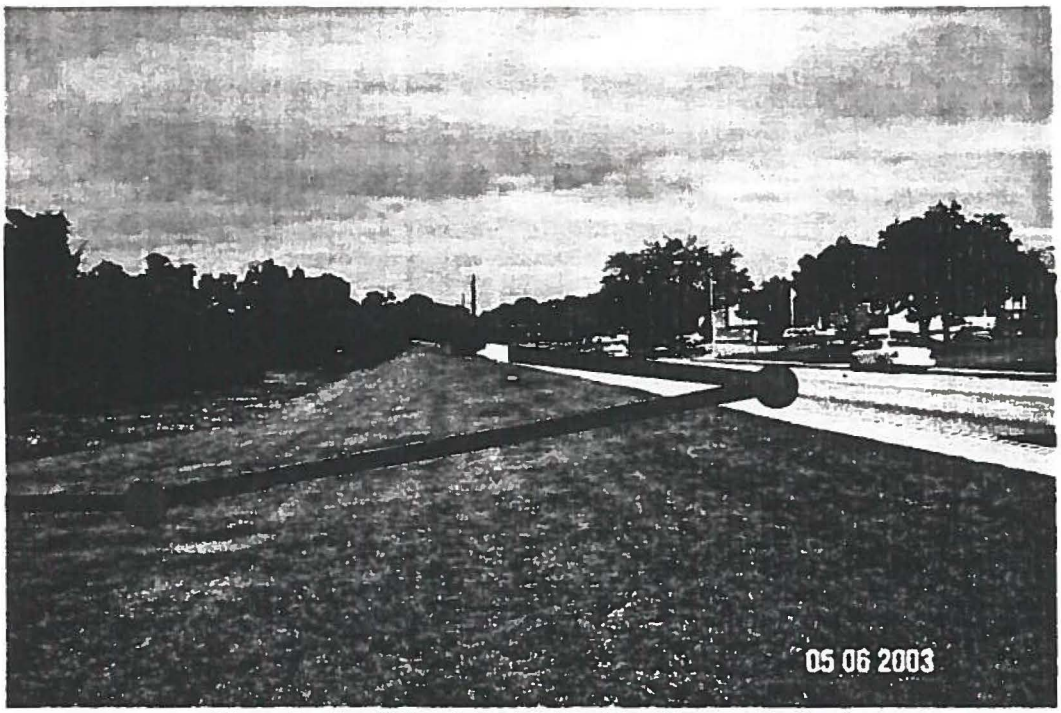


Photo 2. Quail Creek Park – Looking East on Rutland

Photo 3. Quail Creek Park – From Rutland looking towards bore pit

Photo 4. Quail Creek Park – Proposed Bore Pit Approximate Location

Information Packet

DRAFT

Little Walnut South Tunnel
to serve the
LITTLE WALNUT CREEK WASTEWATER COLLECTION SYSTEM

CIP No. 4570-37-8589
eCapris 4926.028

City of Austin
Department of Public Works
and
Austin Clean Water Program

on behalf of the
Water and Wastewater Utility

INTRODUCTION

The Department of Public Works, on behalf of the Water and Wastewater Utility, is proposing to construct a 60-inch diameter Wastewater Line to serve the Little Walnut Creek basin wastewater collection system. In conjunction with this project, Public Works is requesting authorization to build a portion of the Wastewater Line in the recently acquired parkland along Little Walnut Creek between Springdale Road, East 51st St and US 183. This authorization will require action by the City pursuant to Chapter 26 of the Texas Parks and Wildlife Code.

The proposed wastewater line consists of the construction of a 60-inch gravity wastewater line and related appurtenances by open cut trench. There is also a need for temporary work space for the construction of the wastewater line and temporary work and staging areas for a tunnel shaft, to be located adjacent to Springdale Road, within a portion of the site that has been previously cleared.

PROJECT NEED AND JUSTIFICATION

The Austin Clean Water Program (ACWP) was developed to provide wasterwater system improvements needed to overcome system overflows related to deteriorated infrastructure and excessive flows resulting from rainwater infiltration. The US EPA placed an Administrative Order on the City of Austin to eliminate overflows. The wastewater collection system that serves the northern part of the City drains to the Crosstown Tunnel and the overflows for this entire area are to be remedied by September 2005.

In 2002, the City of Austin selected the engineering firm of Brown and Caldwell (B&C) to design the improvements to provide increased capacity in the lower portions of the Little Walnut Creek drainage basin. In November, 2002, B&C was directed to prepare a Feasibility Report for a wastewater line in the creek parallel to the existing wastewater interceptor. Upon determining that this route was not feasible, the Consultant was directed to modify the report to examine the feasibility of a tunnel route for the proposed new line. The engineer recommended a 96-inch diameter tunnel under Northeast Drive with a 60-inch wastewater line. The southern end of the tunnel will be in the parkland, where a work shaft will be established. Upon completion of the new line in the tunnel, an access manhole will remain at the shaft site. The remainder of the proposed line will be installed by open cut method on an alignment parallel to the existing 42-inch wastewater line and a 20-inch natural gas line. The existing lines are roughly parallel to Little Walnut Creek, and the proposed WW line will be located a sufficient distance from the creek to avoid any damage. The route through the parkland is dictated by several factors. One of these is that the new line must tie to an existing 60-inch line that is already located in the parkland. This line carries the wastewater under US 183 and on towards the Walnut Creek Wastewater Treatment Plant. Another factor is that the flow line of Little Walnut Creek is lower than the wastewater system within the parkland, and that requires that the proposed 60-inch wastewater line remain within the parkland until it ties into the existing downstream portion of the wastewater system.

ALTERNATIVES TO THE USE OF PARKLAND

The feasibility report evaluated four alternative routes for the proposed wastewater line. All of the routes converged on the proposed route through the parkland, for the reasons listed above. The proposed line will parallel an existing 42-inch wastewater line that has been in this property for 40 years. The site has only recently been acquired for parkland.

PROJECT DESCRIPTION AND SCHEDULE

The wastewater line project will include the construction of approximately 13,800 linear feet of 60-inch diameter wastewater interceptor and related appurtenances in the general area of Little Walnut Creek, from near the intersection of US 183 and East 51st St. to north of US 290. The project routing and design documents were prepared by Brown and Caldwell, as part of the Austin Clean Water Program (ACWP). The proposed routing is shown on the General Location Map. The portion from Springdale Road to north of US 290 will be tunnel construction. The portion of the project south of Springdale Road will be constructed by open cut trench. This portion is approximately 3,700 linear feet across recently acquired parkland. The proposed line will be installed parallel to existing pipelines, consisting of a 20-inch natural gas line and a 42-inch wastewater line. All of the lines roughly parallel Little Walnut Creek. The affected parkland is within the 100-year floodplain of Little Walnut Creek.

The proposed tunnel will require a work shaft and work space/staging area to be located with the parkland adjacent to Springdale Road and the north property line. The major surface activity for the tunnel will occur at the work shaft, including storage of pipe and field offices for the contractor. The temporary work space will total about 2 acres, to be placed within previously cleared areas to the extent possible. The wastewater line will require a 30' wide permanent wastewater easement plus a temporary 30' construction work space easement. The proposed permanent easement will be adjacent to the easement for the existing 42-inch wastewater line.

Due to the need for the Water and Wastewater Dept. staff to have maintenance access to the existing and proposed wastewater lines and manholes, it is anticipated that a permanent access road will be constructed over the proposed line within the proposed easement. This access would consist of a paved ramp from Springdale Road and a gravel road along the route of the proposed pipeline. This road is also needed to provide accesss to Little Walnut Creek for WPDRD. We understand that the property has been acquired so recently that no planning has occurred, but it should be no problem if the Parks Dept. desires to use the proposed road for its own access and/or trail needs.

The project has an anticipated construction cost of $15,000,000. It is scheduled for bidding in the fall of 2003 and will take approximately 17 months to complete.

SHORT TERM EFFECTS OF CONSTRUCTION

Short-term effects during construction will be: minimal. The construction will not interfere with any park functions since the area involved is along Little Walnut Creek in an undeveloped floodplain and is currently inaccessible to the public.

Disturbance of the area within the permanent and temporary use agreement will include preconstruction clearing, trenching, pipe installation, temporary spoil and material storage, heavy vehicle tracking and soil compaction. There will be no traffic impacted by the construction of this project. Trees within the area covered by the use agreement will be removed, however tree impact will be limited due to previous clearing for the existing pipelines. There should be no riparian disturbance.

LONG TERM EFFECTS OF CONSTRUCTION

The only long-term effects to the parkland as a result of the proposed construction, operation and maintenance of the wastewater line will be the restriction of building structures or similar improvement within the permanent use agreement area. Since a natural gas line is nearer the main part of the park than the proposed wastewater line, that alone will preclude construction along the route of the existing and proposed pipelines. Building restriction is also consistent with the restrictions now placed on those portions of the wastewater line that are within the 100-year floodplain of Little Walnut Creek; therefore,

no long-term effects due to the project are anticipated.

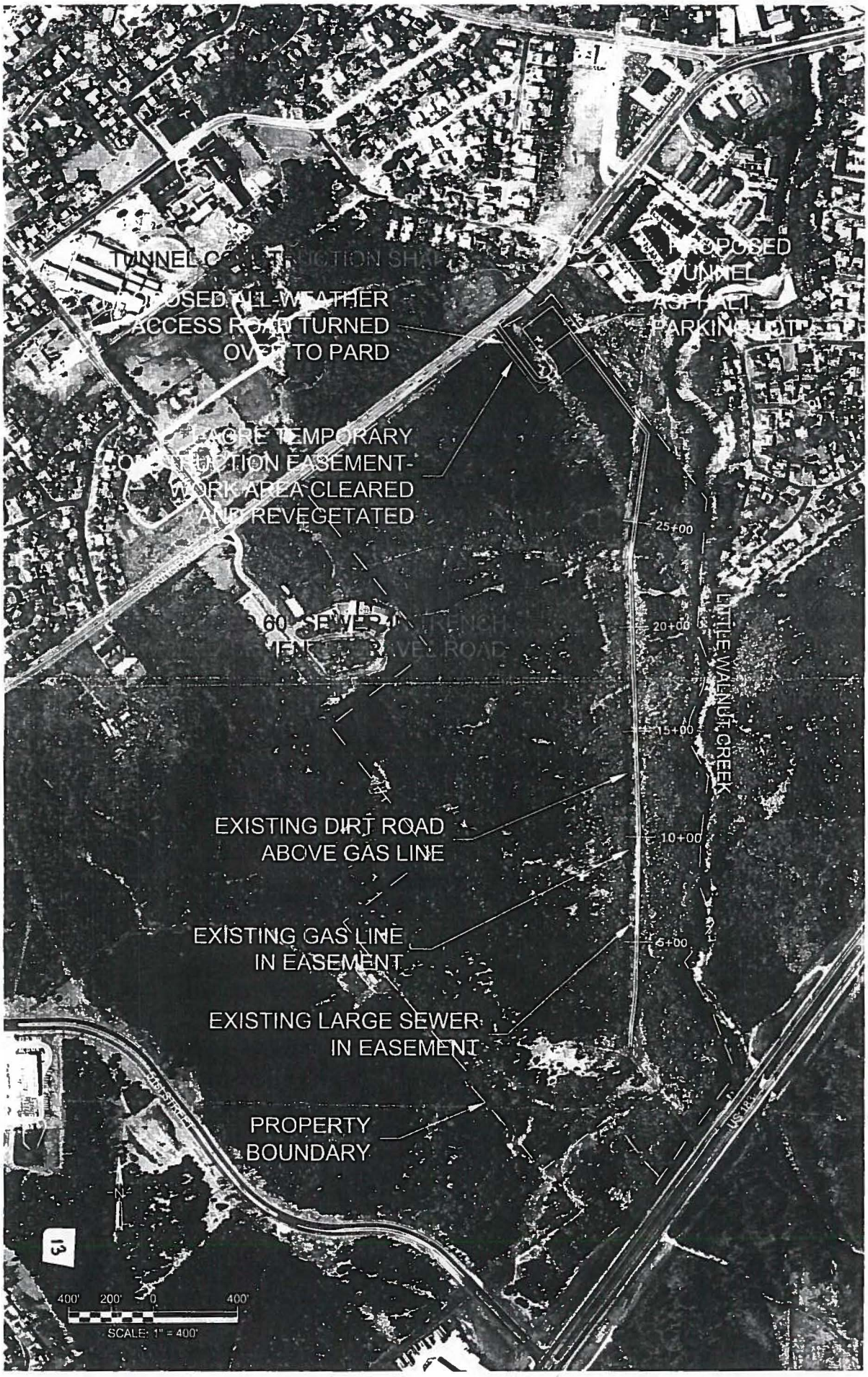
RESTORATION PLAN

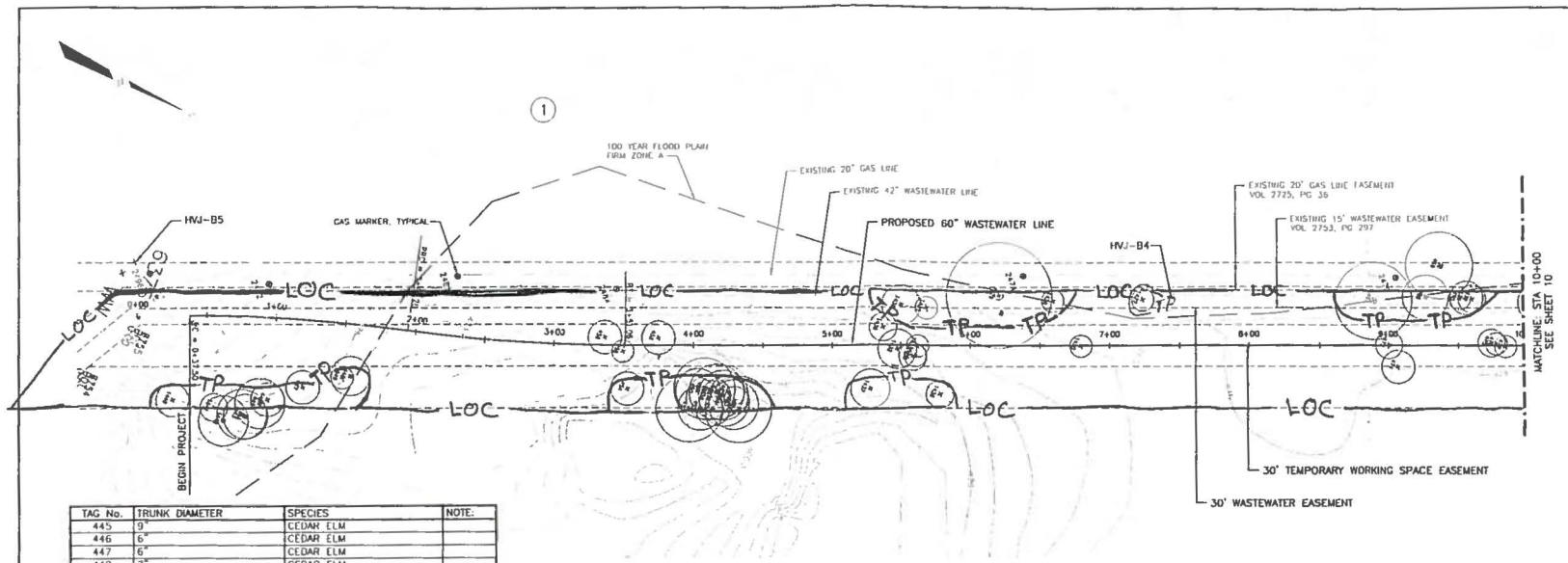
All disturbed land will be restored and revegetated to a condition equal to or better than that which existed prior to construction. Areas used for roadways, parking, etc., will first be tilled in order to remove any vehicle tracks and to loosen compacted soil prior to the preparation of the ground for revegetation. It is anticipated that the entire permanent and temporary use agreement area will require such treatment, with the exception of the area needed for the gravel access road alluded to before.

A detailed tree survey and evaluation were performed by the engineer and is attached hereto. That survey determined that approximately __ trees would be affected by the construction. While a few of these might be protected, most will be removed. The project will include replacement planting or payment for those trees in accordance with PARD's *Construction in Parks Specifications*.

All site restoration will be completed in accordance with the *Standard Specifications and Construction Standards* of the City of Austin. All construction and site restoration for that portion of the project within parkland will also be completed in accordance with PARD's *Construction in Parks Specifications.*

As with all City construction projects, the Contractor will be required to provide a one-year warranty of his work including such restoration, revegetation and tree replacement.


PROPOSED
TUNNEL
ASPHALT
PARKING LOT
PROPOSED ALL-WEATHER
ACCESS ROAD TURNED
OVER TO PARD
1.4 ACRE TEMPORARY
CONSTRUCTION EASEMENT-
WORK AREA CLEARED
AND REVEGETATED
25+00
20+00
15+00
10+00
5+00
LITTLE WALNUT CREEK
EXISTING DIRT ROAD
ABOVE GAS LINE
EXISTING GAS LINE
IN EASEMENT
EXISTING LARGE SEWER
IN EASEMENT
PROPERTY
BOUNDARY
N
400' 200' 0 400'
SCALE: 1" = 400'



TAG No.	TRUNK DIAMETER		SPECIES	NOTE:
445	9"		CEDAR ELM	
446	6"		CEDAR ELM	
447	6"		CEDAR ELM	
448	7"		CEDAR ELM	
449	4"		CEDAR ELM	
450	8"		WILLOW	
451	11"	DOUBLE TRUNK	WILLOW	
452	12"		COTTONWOOD	
453	6"	R	CEDAR ELM	
454	6"		CEDAR ELM	
455	4"	R	CEDAR ELM	
456	6"	R	CEDAR ELM	
457	8"		WILLOW	
458	8"		WILLOW	
459	6"		WILLOW	
460	10"		WILLOW	
461	9"		WILLOW	
462	6"		WILLOW	
463	9"		WILLOW	
464	5"		WILLOW	
465	9"		WILLOW	
466	12"		WILLOW	
467	14"	CLUSTER	OSAGE ORANGE	
468	8"	DOUBLE TRUNK	CEDAR ELM	
469	12"	TRIPLE TRUNK	OSAGE ORANGE	
470	4"		CHINABERRY	
471	6"		CHINABERRY	
472	5"		CEDAR ELM	
473	5"	R	PECAN	
474	6"	R DOUBLE TRUNK	CHINABERRY	
475	5"	R	CHINABERRY	
476	4"	R	CHINABERRY	
477	4"	R	PECAN	
1427	4"		CEDAR ELM	
1428	4"		MESQUITE	
1429	19"	CLUSTER	OSAGE ORANGE	
1430	4"	R	CHINABERRY	
1431	4"		HACKBERRY	
1432	7"	R DOUBLE TRUNK	SPANISH OAK	
1433	5"	R	HACKBERRY	
1434	4"	R	HACKBERRY	
1435	4"	R	HACKBERRY	
1436	5"		POST OAK	
1437	7"	DOUBLE TRUNK	CEDAR ELM	
1438	7"	DOUBLE TRUNK	HACKBERRY	
1439	5"		CEDAR ELM	
1440	6"		CEDAR ELM	
1441	5"		CEDAR ELM	
1442	9"		CEDAR ELM	
1443	9"		CEDAR ELM	

R = REMOVED (R)

14.

NO	BY	DATE	REVISION DESCRIPTION

60% SUBMITTAL

THIS DOCUMENT IS RELEASED FOR THE PURPOSES OF INTERIM REVIEW UNDER THE AUTHORITY OF PERVEZ JAMEEL P.E. #90725 MAY 14, 2003 THIS DOCUMENT IS NOT INTENDED FOR BIDDING, PERMITTING AND/OR CONSTRUCTION PURPOSES

60% SUBMITTAL

BROWN AND CALDWELL
9015 Mountain Ridge Dr., Ste 100 Austin, Texas 78759
(512) 338-8975 www.brownandcaldwell.com

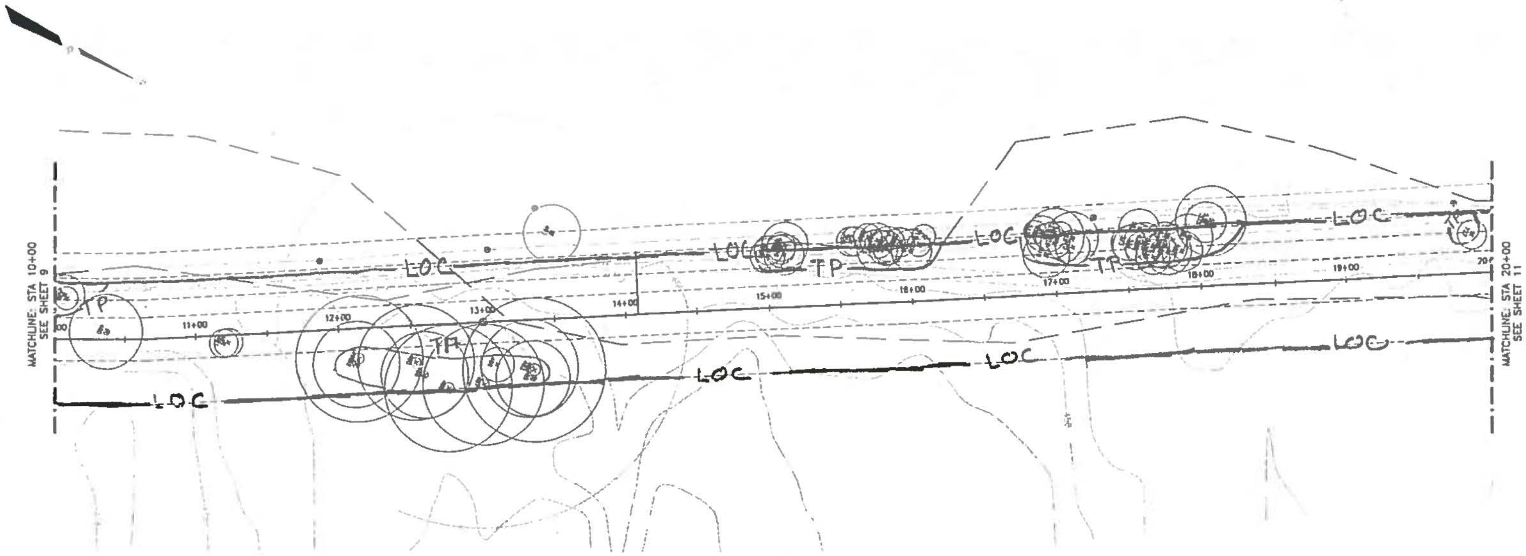
LITTLE WALNUT CREEK - SOUTH WASTEWATER INTERCEPTOR

EROSION/SEDIMENTATION CONTROL AND TREE PROTECTION

acwp

NOTES	NAME	DATE
SURVEY BY		
DRAWN BY		
CHECKED BY		
DESIGNED BY		
REVIEWED BY		

SCALE: H.)1"=40' V.)1"=4'
CADD REF. NO.:
CADD DIR.:



TAG No.	TRUNK DIAMETER	SPECIES	NOTE:
478	4"	CEDAR ELM	
479	7" DOUBLE TRUNK	CEDAR ELM	
[redacted]	13" K TRIPLE TRUNK	PECAN	
[redacted]	5" K	PECAN	
[redacted]	5" K	PECAN	
483	17"	PECAN	
484	25" DOUBLE TRUNK	PECAN	
485	13"	PECAN	
486	6"	CHINABERRY	
487	21"	PECAN	
488	22"	PECAN	
489	15" DOUBLE TRUNK	PECAN	
490	20" DOUBLE TRUNK	PECAN	
491	22"	PECAN	
492	15"	PECAN	
493	10" DOUBLE TRUNK	CHINABERRY	
494	5"	CHINABERRY	
495	6"	CHINABERRY	
496	7" DOUBLE TRUNK	CHINABERRY	
497	5"	CHINABERRY	
498	5"	CHINABERRY	
499	8" DOUBLE TRUNK	CHINABERRY	
500	5"	CHINABERRY	
501	5"	CHINABERRY	
502	5"	CHINABERRY	
503	6"	CHINABERRY	
504	7" DOUBLE TRUNK	CHINABERRY	
505	6" DOUBLE TRUNK	CHINABERRY	
506	6"	CHINABERRY	
507	5"	CHINABERRY	
508	5"	CHINABERRY	
509	7"	CHINABERRY	
510	4"	CHINABERRY	
511	4"	CHINABERRY	
512	4"	CHINABERRY	
513	6"	CHINABERRY	
514	4"	CHINABERRY	
515	8" DOUBLE TRUNK	CHINABERRY	
516	5"	CHINABERRY	
517	10" QUAD TRUNK	CHINABERRY	
518	4"	CHINABERRY	
519	5"	CHINABERRY	
520	6"	CHINABERRY	

TAG No.	TRUNK DIAMETER	SPECIES	NOTE:
521	9" TRIPLE TRUNK	CHINABERRY	
522	7"	CHINABERRY	
523	6"	CHINABERRY	
524	8" DOUBLE TRUNK	CHINABERRY	
526	6"	CHINABERRY	
527	6"	CHINABERRY	
528	6"	CHINABERRY	
529	6"	CHINABERRY	
530	8" DOUBLE TRUNK	CHINABERRY	
531	8"	CHINABERRY	
532	7"	CHINABERRY	
533	8"	CHINABERRY	
534	5"	CHINABERRY	
535	7"	CHINABERRY	
536	12" DOUBLE TRUNK	CHINABERRY	
727	5"	CEDAR ELM	

15.

REV NO	BY	DATE	REVISION DESCRIPTION

60% SUBMITTAL

THIS DOCUMENT IS RELEASED FOR THE PURPOSES OF INTERIM REVIEW UNDER THE AUTHORITY OF PORVCZ JAMEEL P.E. #90775 MAY 14, 2003 THIS DOCUMENT IS NOT INTENDED FOR BIDDING, PERMITTING AND/OR CONSTRUCTION PURPOSES

60% SUBMITTAL

BROWN AND CALDWELL
9015 Mountain Ridge Dr, Ste 100 Austin, Texas 78759
(512) 328-8975 www.brownandcaldwell.com

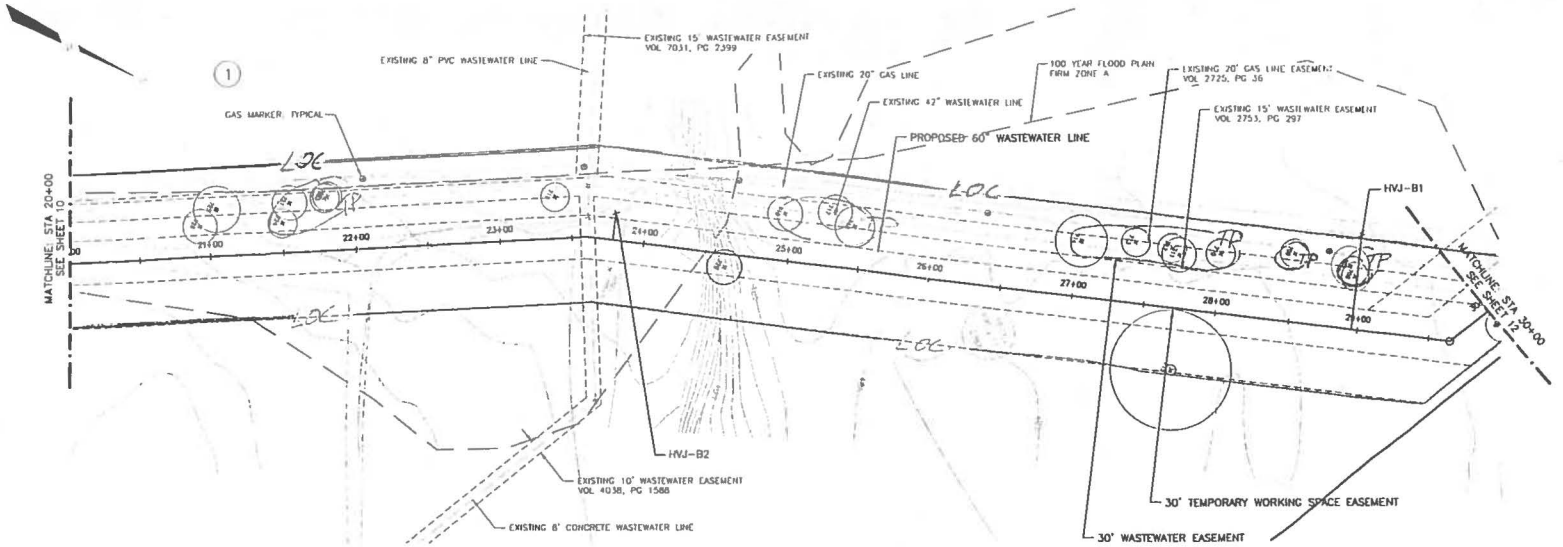
LITTLE WALNUT CREEK - SOUTH WASTEWATER INTERCEPTOR

EROSION/SEDIMENTATION CONTROL AND TREE PROTECTION

acwp

NOTES	NAME	DATE
SURVEY BY		
DRAWN BY		
CHECKED BY		
DESIGNED BY		
REVIEWED BY		
SCALE: H)1"=40' V)1"=4'		
CADD REF. NO.:		
CADD DIR.:		

SHEET NUMBER 10 OF



TAG No.	TRUNK DIAMETER	SPECIES	NOTE:
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707	7"	CEDAR ELM	
708	5"	CEDAR ELM	
709	5"	CEDAR ELM	
710	5"	CEDAR ELM	
711	6"	CEDAR ELM	
712	5"	CEDAR ELM	
713	5"	CEDAR ELM	
714	9"	OSAGE ORANGE	
715	32"	PECAN	
716	7" TWIN	CEDAR ELM	
717	6"	CEDAR ELM	
718	6"	CEDAR ELM	
719	5"	CEDAR ELM	
[illegible]	6"	PECAN	
721	12"	OSAGE ORANGE	
722	5"	OSAGE ORANGE	
723	5"	OSAGE ORANGE	
[illegible]	5"	CEDAR ELM	
725	8" TWIN	CEDAR ELM	
[illegible]	6" TWIN	CEDAR ELM	

16.

NO.	BY	DATE	REVISION DESCRIPTION

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9015 Mountain Ridge Dr, Ste 100 Austin, Texas 78759
(512) 328-4975 www.brownandcaldwell.com

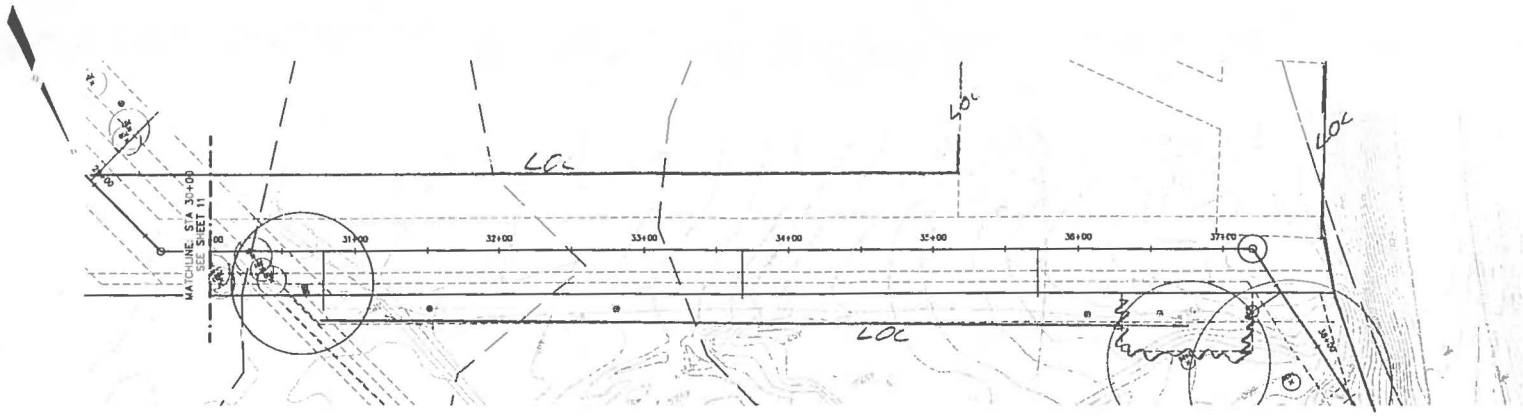
LITTLE WALNUT CREEK - SOUTH WASTEWATER INTERCEPTOR

EROSION/SEDIMENTATION CONTROL AND TREE PROTECTION

acwp

NOTES	NAME	DATE
SURVEY BY		
DRAWN BY		
CHECKED BY		
DESIGNED BY		
REVIEWED BY		

SCALE: H.)1"=40' V.)1"=4'
CADD REF. NO.:
CADD DIR.:



TAG No.	TRUNK DIAMETER	SPECIES	NOTE:
[redacted]	4"	CEDAR ELM	
[redacted]	4"	HACKBERRY	
[redacted]	6.5"	CEDAR ELM	
703	5"	CEDAR ELM	
704	4.5"	CEDAR ELM	
1425	35"	WILLOW	
1426	28" DOUBLE TRUNK	WILLOW	

TREE SURVEY
IN PROGRESS
2-16-23

17.
End

REVISION DESCRIPTION | DATE | BY | NO.

60% SUBMITTAL

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BROWN AND GAY ENGINEERS
9015 Mountain Ridge Dr., Ste 100 Austin, Texas 78759
(512) 328-8975 www.brownandgayeng.com

LITTLE WALNUT CREEK - SOUTH WASTEWATER INTERCEPTOR

EROSION/SEDIMENTATION CONTROL AND TREE PROTECTION

acwp

NOTES	NAME	DATE
SURVEY BY		
DRAWN BY		
CHECKED BY		
DESIGNED BY		
REVIEWED BY		

SCALE: H)1"=40' V)1"=4'
CADD REF. NO.:
CADD DIR.:

#5.

Information Packet

City of Pflugerville, Texas
Colorado River Water Supply Project
Raw Water Pipeline

Prepared by HDR Engineering, Inc
on Behalf of the
City of Pflugerville, Texas

June 2003

Introduction

The City of Pflugerville, Texas (City) is proposing to construct a 30-inch diameter raw water pipeline as part of the City's Colorado River Water Supply Project. In conjunction with this project, the City is requesting authorization to build a portion of the raw water pipeline in three tracts of land owned by the City of Austin's Parks and Recreation Department (PARD) along the abandoned Mo-Kan railroad right-of-way in east Austin.

The City of Pflugerville is implementing a water supply project to convey raw water from the Colorado River to Pflugerville to supplement the City's water supply (see Figure 1). The City of Pflugerville currently relies on groundwater from the Edwards Aquifer and supplemental water from the City of Austin. The Colorado River Water Supply Project includes a 16-mile, 30-inch diameter raw water pipeline from a river intake and pump station site on the Colorado River, located about one mile downstream of Hwy 183, to a small reservoir and water treatment plant site near the City of Pflugerville. The pipeline route will generally follow an abandoned railroad corridor and public street right-of-ways to its terminus at a proposed raw water storage reservoir site. The pipeline will be installed with a normal depth of cover of 4 feet; however, the pipeline will be installed at greater depths at specific locations where there are other underground utility conflicts are encountered.

The proposed raw water pipeline route discussed herein crosses three City of Austin PARD tracts. Figure 2 shows the locations of these tracts and labels them 1 through 3 for ease of reference in this discussion. In general, the three tracts are undeveloped parkland and are currently inaccessible to the general public. The three tracts border on the abandoned Mo-Kan railroad right-of-way and the proposed pipeline route discussed herein parallels the abandoned railroad right-of-way.

Project Need and Justification

Many communities in Travis, Williamson, and Bell Counties rely on the Edwards Aquifer as a water supply source, but population growth throughout the area has increased pumping from the aquifer to the point that the long-term sustained yield of the aquifer is being exceeded. The Texas Water Development Board has monitored water levels in the Pflugerville area since the 1960s and Figure 3 shows measurements in Well No. 58-36-402 near the center of pumpage for the City of Pflugerville.[1] These measurements demonstrate the overall long-term decline in well levels and the rapid fluctuations in water level (over 100 feet) that can occur in this aquifer.

The City operates four water supply wells (Well No. 4, 5, 6, 7) that draw water from the Edwards Aquifer. During the recent short-duration droughts of the summers of 1998 and 2000, the water levels in these wells plummeted to record lows. In the summer of 2000, only Well 7 was able to

[1] Texas Water Development Board, "Updated Evaluation of Water Resources in Bell, Burnet, Travis, Williamson, and Parts of Bastrop, Lee, and Milam Counties, Texas," Open-File Report 99-01, July 1999.

Figure 1

City of Pflugerville Colorado River Water Supply Project

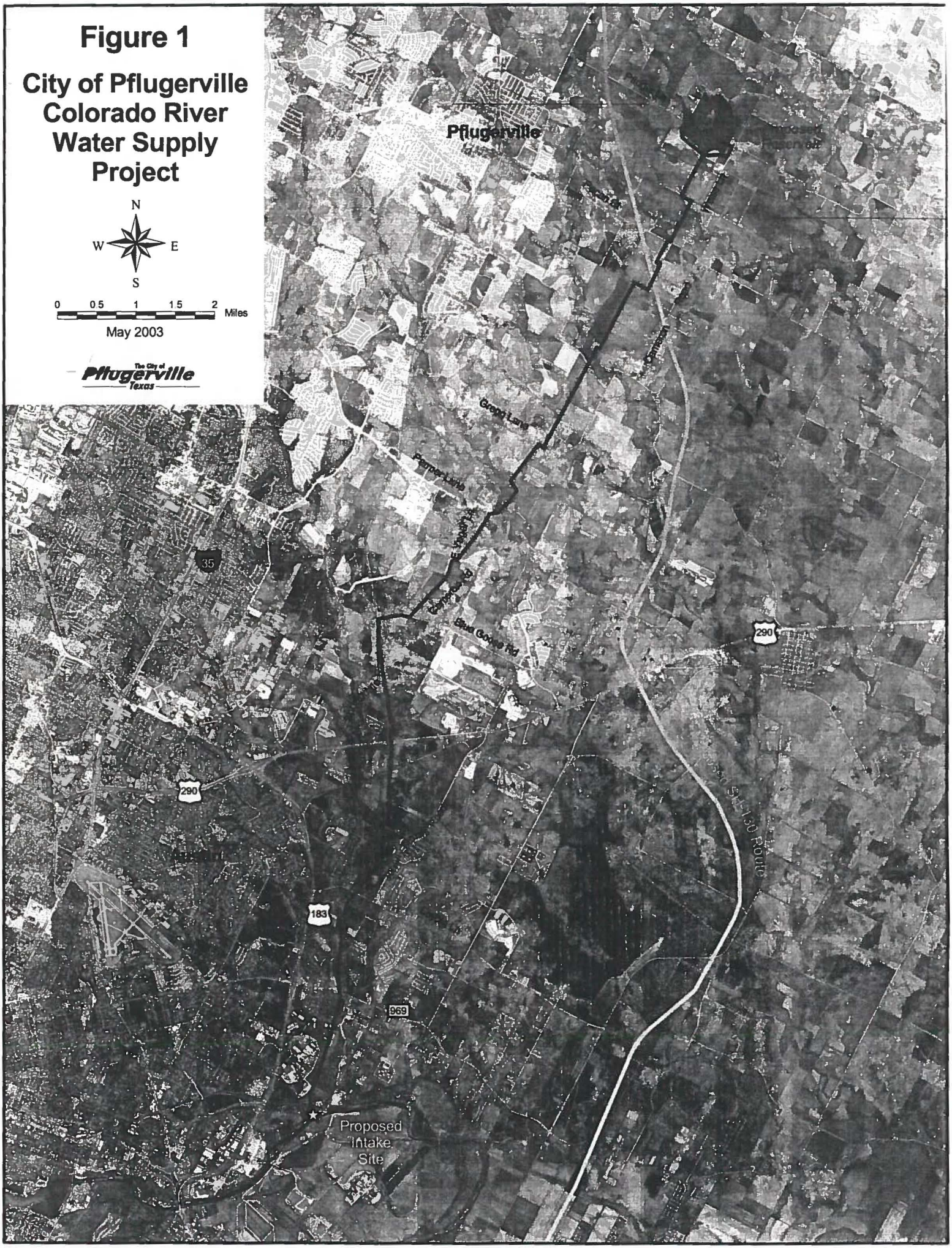



Figure 2
City of Pflugerville Colorado River Water Supply Project
City of Austin Parks & Recreation Department Tracts
Legend
COA Parks
N
W
E
S
0 1000 2000 3000 4000 5000 Feet
May 2003
The City of Pflugerville Texas
Springdale Road
290
290
Johnny Morris Road
City of Austin Tract 3
City of Austin Tract 2
183
Austin
Loyola Ln
City of Austin Tract 1
MLK Blvd
969
Colorado River
Proposed Intake Site

sustain pumpage and it's pumping capacity was reduced to about 60 percent of its normal capacity. The City was forced to implement severe water use restrictions to sustain water service to its customers during this period of time.

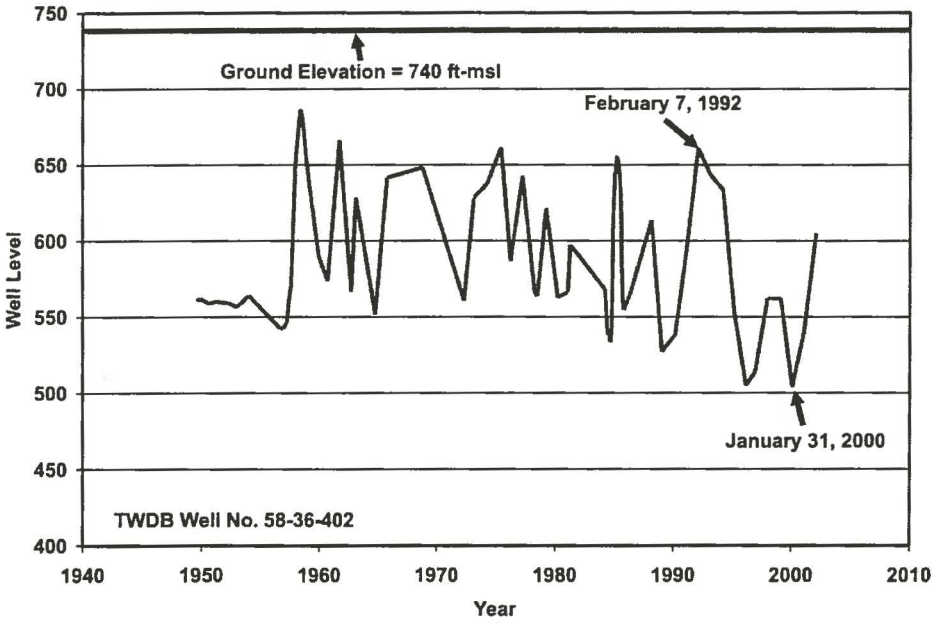


Figure 3. Historic Well Levels for the City of Pflugerville

In 1989, the City of Pflugerville contracted with the City of Austin to purchase wholesale treated water as a supplemental supply, and in July 2000, construction of the infrastructure (water meter, ground storage tank, pump station, and about 2 miles of 18-inch diameter pipeline) needed to deliver this supplemental supply was completed. The contract with the City of Austin allows Pflugerville to purchase up to a maximum of 10 million gallons per day (MGD) of capacity from the City of Austin system. The City of Pflugerville and the City of Austin have negotiated a revised contract for water that terminates the water contract upon completion of Pflugerville's Colorado River Water Supply Project, and allows the City of Austin to retain the 10 mgd of capacity that is currently committed to Pflugerville.

The City of Pflugerville evaluated various water supply alternatives and determined that obtaining a new water supply from the Colorado River was the preferred alternative. Pflugerville has entered into a contract with the LCRA for purchase of water from the Highland Lakes system. The City of Pflugerville is currently in the process of implementing the Colorado River Water Supply Project

Alternatives to the Use of Parkland

The preliminary engineering report evaluated three primary alternatives for the proposed raw water pipeline route. The primary criteria for selecting the route was length of pipe to be installed, least environmental impact, and the number of individual parcels of land crossed along

the route. The selected route was the shortest distance between the proposed intake site and the proposed storage reservoir. Based on existing Travis County Central Appraisal District maps, the selected pipeline route was found to cross approximately ½ of the individual parcels crossed by the other two options. In addition, much of the selected route parallels existing railroad or utility corridors, crosses properties along the rear property lines, and minimizes the impact to the affected parcels. The selected pipeline route crosses approximately 4,535 linear feet of land owned by the City of Austin PARD. The City of Pflugerville has made application to the U.S. Army Corps of Engineers for a Section 404 Permit and has developed a mitigation plan for implementation of the project that has been accepted by the Corps of Engineers and the TCEQ.

Project Description and Schedule

The proposed raw water pipeline will consist of approximately 16-miles of 30-inch pipe. Approximately 4,535 linear feet of the pipeline route are located in City of Austin PARD property. The construction will generally require a 40-foot wide permanent easement for construction of the proposed 30-inch diameter pipeline and a future 30-inch diameter pipeline. The construction will also require a temporary construction easement.

The pipeline will be installed with a normal depth of cover of 4 feet; however, the pipeline will be installed at greater depths at specific locations where there are other underground utility conflicts are encountered. No major above ground appurtenances are anticipated with this pipeline project. It is possible, however, that manhole covers for air/vacuum relief valve vaults could be placed on one or more of the PARD tracts. The exact location of these appurtenances will be determined during final design this summer. A summary of the area to be designated as permanent and temporary easement is included in Appendix A.

The raw water pipeline project has an anticipated construction cost of $11,840,000. It is schedule for bidding in the fall of 2003 and will take approximately 12 months to complete.

Short-Term Effects of Construction

Short-term effects during construction will be minimal. The construction will not interfere with any park functions since the area involved is along the abandoned railroad right-of-way and is currently inaccessible to the public.

Disturbance of the area within the permanent and temporary use agreement will include pre-construction clearing, trenching, pipe installation, temporary spoil and material storage, heavy vehicle tracing, and soil compaction. There will be minimal traffic impacted by the construction of this project. Trees within the area covered by the permanent use agreement will be removed. There will be short-term riparian disturbance within the easement; however, no long-term effects to the riparian habitat are anticipated since all disturbed areas will be restored and revegetated.

Tree surveys for all three City of Austin PARD tracts are included in Appendix B. As a general rule, we attempted to protect all trees 19-inches diameter and larger and all trees at the edges of

the easement. At this time, we anticipate protecting the majority of the trees surveyed on Tract 1 and have proposed a replacement of 40 caliper inches (see Appendix B for the details). Tracts 2 and 3 are more densely vegetated with smaller diameter trees. Therefore, more trees will have to be removed. On these tracts, a total of 696 caliper inches of tress will be replaced (see Appendix B for details).

The City of Pflugerville has not made a final determination on whether the City will plant replacement trees in the temporary construction easements or will pay into one of the City of Austin's tree funds. If the City of Pflugerville pays into the City of Austin's Urban Forestry Replenishment Fund the replacement for the trees removed on these three tracts could be as much as $55,200 (using the published replacement value of $75 per caliper inch).

Long-Term Effects of Construction

The only long-term effects to the City of Austin PARD tracts as a result of the proposed construction, operation, and maintenance of the raw water pipeline will be the restriction of building structures or similar improvement within the permanent use agreement area. This is consistent with the restrictions now placed on the portion of the area that is within the 100-year floodway of Walnut Creek (PARD Tract 1); therefore, no long-term effects due to the project are anticipated.

Restoration Plan

All disturbed land will be restored and revegetated to a condition equal to or better than that which existed prior to construction. Areas used for roadways, parking, etc., will first be tilled in order to remove an vehicle tracks and to loosen compacted soil prior to the preparation of the ground for revegetation. It is anticipated that the entire permanent and temporary use agreement area will require such treatment.

A detailed tree survey and evaluation will be performed by the City of Pflugerville's surveyor as part of the City of Austin's Site Development Review Process. While a few of the trees encountered may be protected, most will be removed within the permanent use corridor. The project will include replacement planting or payment for those trees in accordance with PARD's requirements. All site restoration will be completed in accordance with the *Standard Specification and Construction Standards* of the City of Austin. All construction and site restoration for that portion of the project within parkland will also be completed in accordance with PARD's requirements.

As with all City of Pflugerville construction projects, the Contractor will be required to provide a 1-year warranty of his work including such restoration, revegetation, and tree replacement.

Appendix A
Summary of Survey Notes
COA PARD Tracts 1,2, and 3

Summary of Land Use Request on COA PARD Tract 1

- This tract is located north of F.M. 969 and south of Walnut Creek on the West side of the abandoned railroad right-of-way.
- Land used as permanent easement: 1.879 acres
- Land used as temporary easement: 1.917 acres
- See Easement Plats Showing Parcel No. 60 attached

Summary of Land Use Request on COA PARD Tract 2

- This tract is located north of Loyola Lane and south of Old Manor Road on the East side of the abandoned railroad right-of-way (in the area known as Big Walnut Creek Greenbelt).
- Land used as permanent easement: 1.33 acres
- Land used as temporary easement: 2.00 acres
- See Easement Plats Showing Parcel No. 160 attached

Summary of Land Use Request on COA PARD Tract 3

- This tract is located north of Loyola Lane and south of Old Manor Road on the East side of the abandoned railroad right-of-way, just north of Tract 2 (in the area known as Big Walnut Creek Greenbelt).
- Land used as permanent easement: 1.39 acres
- Land used as temporary easement: 2.19 acres
- See Easement Plats Showing Parcel No. 170 attached

COA PARD Tract 1
Temporary and Permanent Easement Plats

LEGEND

⬢	1/2" IRON ROD w/ PLASTIC CAP FOUND
●	1/2" IRON ROD FOUND (UNLESS NOTED)
⊕	1/2" IRON ROD w/ PLASTIC CAP SET
◉	1/2" IRON PIPE FOUND (UNLESS NOTED)
△	CALCULATED POINT
⊹	60D NAIL FOUND
■	TX.D.O.T. TYPE I MONUMENT FOUND
P.O.C.	POINT OF COMMENCING
P.O.B.	POINT OF BEGINNING
D.R.T.C.TX.	DEED RECORDS TRAVIS COUNTY, TEXAS
R.P.R.T.C.TX.	REAL PROPERTY RECORDS TRAVIS COUNTY, TEXAS
O.P.R.T.C.TX.	OFFICIAL PUBLIC RECORDS TRAVIS COUNTY, TEXAS
P.R.T.C.TX.	PLAT RECORDS TRAVIS COUNTY, TEXAS

N

200 100 0 200 400

GRAPHIC SCALE
SCALE: 1"=200'

CALLED 17.140 ACRES
THE TRUST FOR PUBLIC LAND
TO
THE CITY OF AUSTIN, TEXAS
FEBRUARY 29, 2000
DOC No. 2000031176
O.P.R.T.C.TX.

MATCHLINE PAGE 4

JAMES BURLESON SURVEY No. 19 ABSTRACT No. 4

CALLED 7.225 ACRES
MILES D. WILSON
AND JEFF BAILEY
TO
RAMIRO GUERRA
JANUARY 30, 2002
DOC NO. 2002022782
O.P.R.T.C.TX.

PROPOSED 40-FOOT WIDE TEMPORARY CONSTRUCTION EASEMENT

S08°56'04"E 1,879 ACRES 972.41'
N08°56'04"W 972.42'

JESSE C. TANNEHILL SURVEY No. 29 ABSTRACT No. 22

APPROXIMATE LOCATION OF SURVEY LINE

(N26°24'44"W) (105.25')
N28°33'46"W 105.34'

P.O.C.

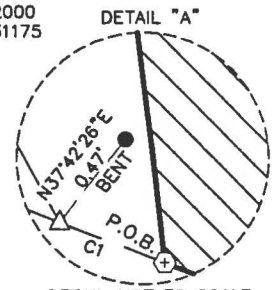
(S28°45'03"E 554.66')
S28°46'07"E 449.32'

CALLED 219.184 ACRES
MISSOURI PACIFIC
RAILROAD COMPANY
TO
STATE OF TEXAS
NOVEMBER 21, 1990
VOL. 11339, PG. 2005
R.P.R.T.C.TX.

REMAINDER OF A
CALLED 24.482 AC
RESOLUTION TRUST CORPORATION
TO
MILES D. WILSON
DECEMBER 28, 1994
VOL. 12343, PG. 1660
R.P.R.T.C.TX.

TWENTY FOOT WIDE
WASTEWATER ESM'T
TO
CITY OF AUSTIN
FEBRUARY 29, 2000
DOC. No. 2000031175
O.P.R.T.C.TX.

DETAIL "A"



DETAIL NOT TO SCALE

CALLED 15,331 SQ FT
WATER AND WASTEWATERLINE ESM'T
TO
CITY OF AUSTIN
AUGUST 5, 1987
VOL. 10363, PG. 920
R.P.R.T.C.TX.

C1
L=12.68'
Δ=0°11'16"
R=3869.72'
CB=S68°41'45"E
C=12.68'
TAN=6.34'

10-FOOT WATER MAIN ESM'T
TO
TRAVIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT
VOL. 1959, PG. 52
D.R.T.C.TX.

SEE DETAIL "A"

C2
C5
C6

F.M. 969
(VARIABLE WIDTH R.O.W.)

C2	C5	C6
L=123.83'	L=146.95'	L=45.27'
Δ=02°34'31"	Δ=03°00'45"	Δ=00°40'13"
R=2755.00'	R=2795.00'	R=3869.72' (R=3869.72')
CB=N07°41'02"W	CB=S07°27'54"E	CB=N68°16'01"W
C=123.82'	C=146.94'	C=45.26'

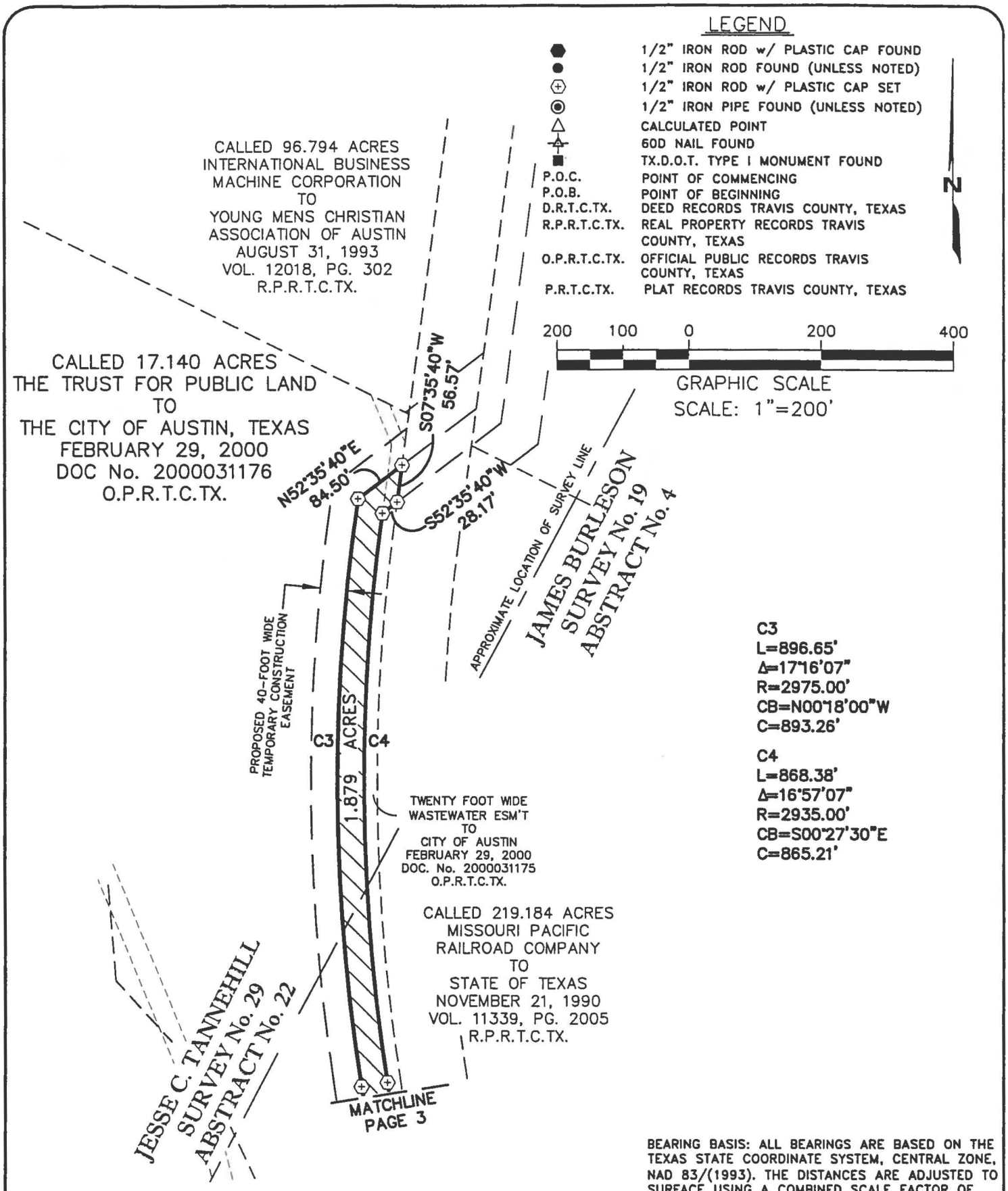
BEARING BASIS: ALL BEARINGS ARE BASED ON THE TEXAS STATE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83/(1993). THE DISTANCES ARE ADJUSTED TO SURFACE USING A COMBINED SCALE FACTOR OF 1.00007.

REFERENCE FIELD NOTE No. 2963R

PROJECT:	PFLUGERVILLE RAW WL
JOB NUMBER:	22259E-01
DATE:	MAY 2003
SURVEYOR:	PLE
PARTY CHIEF:	LG
FIELDBOOK:	3223
FIELDNOTE:	FN2963
TECHNICIAN:	OS
DRAWING:	FN2963.DWG
SCALE:	1"= 200'

SAM INC.
SURVEYING•AERIAL MAPPING•ENGINEERING
5508 WEST HIGHWAY 290
BUILDING B
AUSTIN TEXAS, 78735
(512) 447-0575
Fax: (512) 326-3029
EMAIL: SAM@SAMINCAUS.COM

EASEMENT PLAT SHOWING
PARCEL No. 60
PROPERTY OF
CITY OF AUSTIN
PLFUGERVILLE RAW WATERLINE



BEARING BASIS: ALL BEARINGS ARE BASED ON THE TEXAS STATE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83/(1993). THE DISTANCES ARE ADJUSTED TO SURFACE USING A COMBINED SCALE FACTOR OF 1.00007.

REFERENCE FIELD NOTE No. 2963R

PROJECT:	PFLUGERVILLE RAW WL
JOB NUMBER:	22259E-01
DATE:	MAY 2003
SURVEYOR:	PLE
PARTY CHIEF:	LG
FIELDBOOK:	3223
FIELDNOTE:	FN2963
TECHNICIAN:	DS
DRAWING:	FN2963.DWG
SCALE:	1"= 200'

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(512) 447-0575
FAX: (512) 326-3029
EMAIL: SAM@SAMINCAUS.COM

EASEMENT PLAT SHOWING
PARCEL No. 60
PROPERTY OF
CITY OF AUSTIN
PLFUGERVILLE RAW WATERLINE

LEGEND

⬢	1/2" IRON ROD w/ PLASTIC CAP FOUND
●	1/2" IRON ROD FOUND (UNLESS NOTED)
⊕	1/2" IRON ROD w/ PLASTIC CAP SET
◉	1/2" IRON PIPE FOUND (UNLESS NOTED)
△	CALCULATED POINT
⌖	60D NAIL FOUND
■	TX.D.O.T. TYPE I MONUMENT FOUND
P.O.C.	POINT OF COMMENCING
P.O.B.	POINT OF BEGINNING
D.R.T.C.TX.	DEED RECORDS TRAVIS COUNTY, TEXAS
R.P.R.T.C.TX.	REAL PROPERTY RECORDS TRAVIS COUNTY, TEXAS
O.P.R.T.C.TX.	OFFICIAL PUBLIC RECORDS TRAVIS COUNTY, TEXAS
P.R.T.C.TX.	PLAT RECORDS TRAVIS COUNTY, TEXAS

N

200 100 0 200 400

GRAPHIC SCALE

SCALE: 1"=200'

CALLED 17.140 ACRES
THE TRUST FOR PUBLIC LAND
TO
THE CITY OF AUSTIN, TEXAS
FEBRUARY 29, 2000
DOC No. 2000031176
O.P.R.T.C.TX.

MATCHLINE PAGE 4

PROPOSED 40-FOOT WIDE WATERLINE EASEMENT

JAMES BURLESON SURVEY No. 19 ABSTRACT No. 4

DETAIL "A"

C1

P.O.B.

DETAIL NOT TO SCALE

CALLED 7.225 ACRES
MILES D. WILSON
AND JEFF BAILEY
TO
RAMIRO GUERRA
JANUARY 30, 2002
DOC NO. 2002022782
O.P.R.T.C.TX.

S08°56'04"E
1,917 ACRES
972.42'
N08°56'04"W
972.38'

TWENTY FOOT WIDE WASTEWATER ESM'T
TO
CITY OF AUSTIN
FEBRUARY 29, 2000
DOC. No. 2000031175
O.P.R.T.C.TX.

CALLED 219.184 ACRES
MISSOURI PACIFIC
RAILROAD COMPANY
TO
STATE OF TEXAS
NOVEMBER 21, 1990
VOL. 11339, PG. 2005
R.P.R.T.C.TX.

JESSE C. TANNEHILL SURVEY No. 29 ABSTRACT No. 22

APPROXIMATE LOCATION OF SURVEY LINE

N28°46'07"W 105.34' (N26°24'44"W) (105.25')

P.O.C.

(S28°45'03"E 554.66')
S28°46'07"E 371.12'

REMAINDER OF A
CALLED 24.482 AC
RESOLUTION TRUST CORPORATION
TO
MILES D. WILSON
DECEMBER 28, 1994
VOL. 12343, PG. 1660
R.P.R.T.C.TX.

N28°46'07"W 78.59'

SEE DETAIL "A"

P.O.B.

C4

DETAIL "B"

N37°42'26"E 0.47' BENT

C5

DETAIL NOT TO SCALE

CALLED 15,331 SQ FT
WATER AND WASTEWATERLINE ESM'T
TO
CITY OF AUSTIN
AUGUST 5, 1987
VOL. 10363, PG. 920
R.P.R.T.C.TX.

10-FOOT WATER MAIN ESM'T
TO
TRAVIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT
VOL. 1959. PG. 52
D.R.T.C.TX.

SEE DETAIL "B"

F.M. 969 (VARIABLE WIDTH R.O.W.)

C1	C4	C5
L=43.48'	L=123.83'	L=12.68'
Δ=00°55'03"	Δ=02°34'31"	Δ=00°11'16"
R=2715.00'	R=2755.00'	R=3869.72' (R=3869.72')
CB=N08°30'46"W	CB=S07°41'02"E	CB=N68°41'45"W
C=43.47'	C=123.82'	C=12.68'

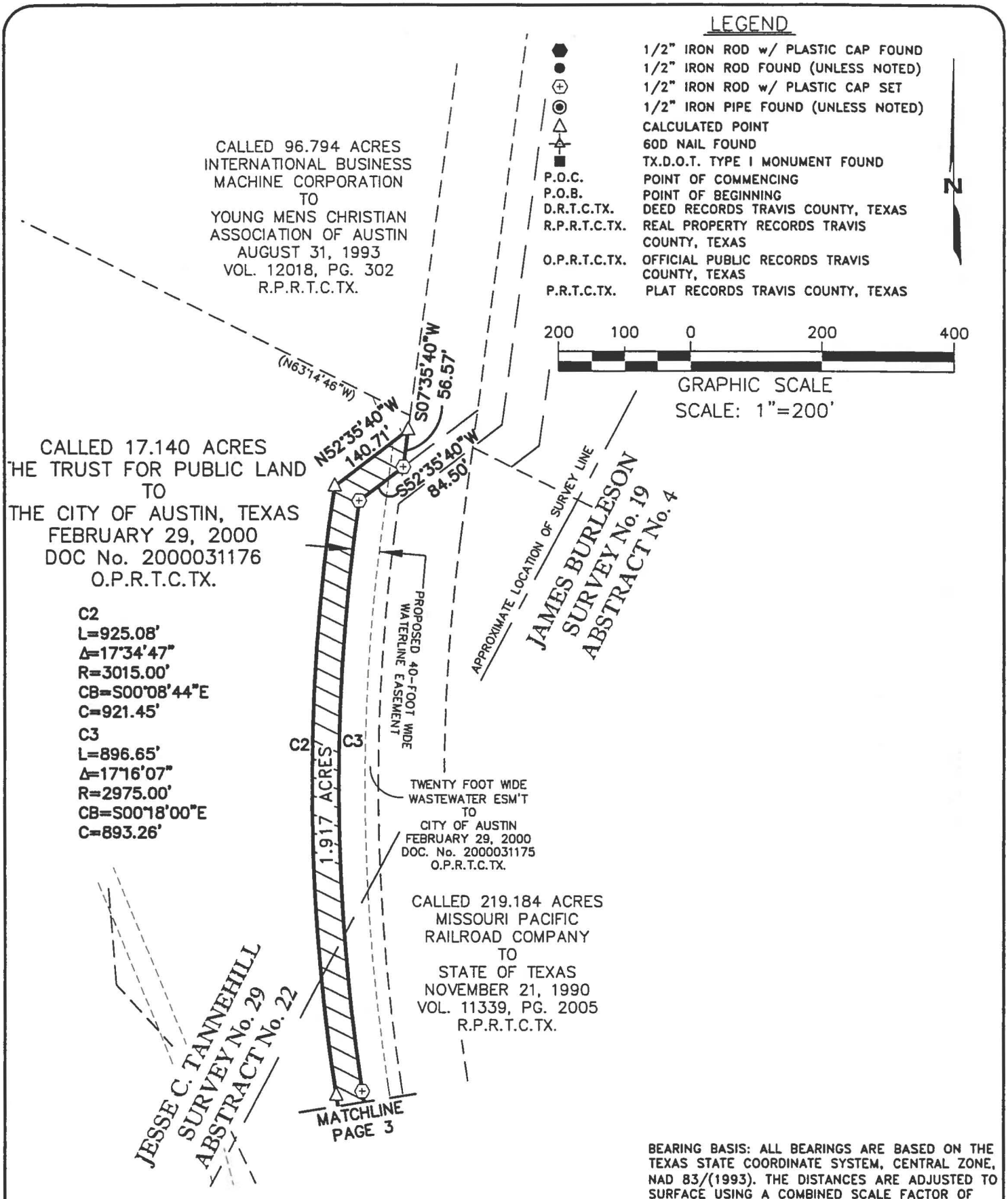
BEARING BASIS: ALL BEARINGS ARE BASED ON THE TEXAS STATE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83/(1993). THE DISTANCES ARE ADJUSTED TO SURFACE USING A COMBINED SCALE FACTOR OF 1.00007.

REFERENCE FIELD NOTE No. 2964

PROJECT:	PFLUGERVILLE RAW WL
JOB NUMBER:	22259E-01
DATE:	MAY 2003
SURVEYOR:	PLE
PARTY CHIEF:	LG
FIELDBOOK:	3223
FIELDNOTE:	FN2964
TECHNICIAN:	DS
DRAWING:	FN2964.DWG
SCALE:	1"= 200'

SAM Inc.
SURVEYING•AERIAL MAPPING•ENGINEERING
5508 WEST HIGHWAY 290
BUILDING B
AUSTIN TEXAS, 78735
(512) 447-0575
Fax: (512) 326-3029
EMAIL: SAM@SAMINCAUS.COM

EASEMENT PLAT SHOWING
PARCEL No. 60
PROPERTY OF
CITY OF AUSTIN
PLFUGERVILLE RAW WATERLINE



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REFERENCE FIELD NOTE No. 2964

PROJECT:	PFLUGERVILLE RAW WL
JOB NUMBER:	22259E-01
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FIELDBOOK:	3223
FIELDNOTE:	FN2964
TECHNICIAN:	DS
DRAWING:	FN2964.DWG
SCALE:	1"= 200'

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EASEMENT PLAT SHOWING
PARCEL No. 60
PROPERTY OF
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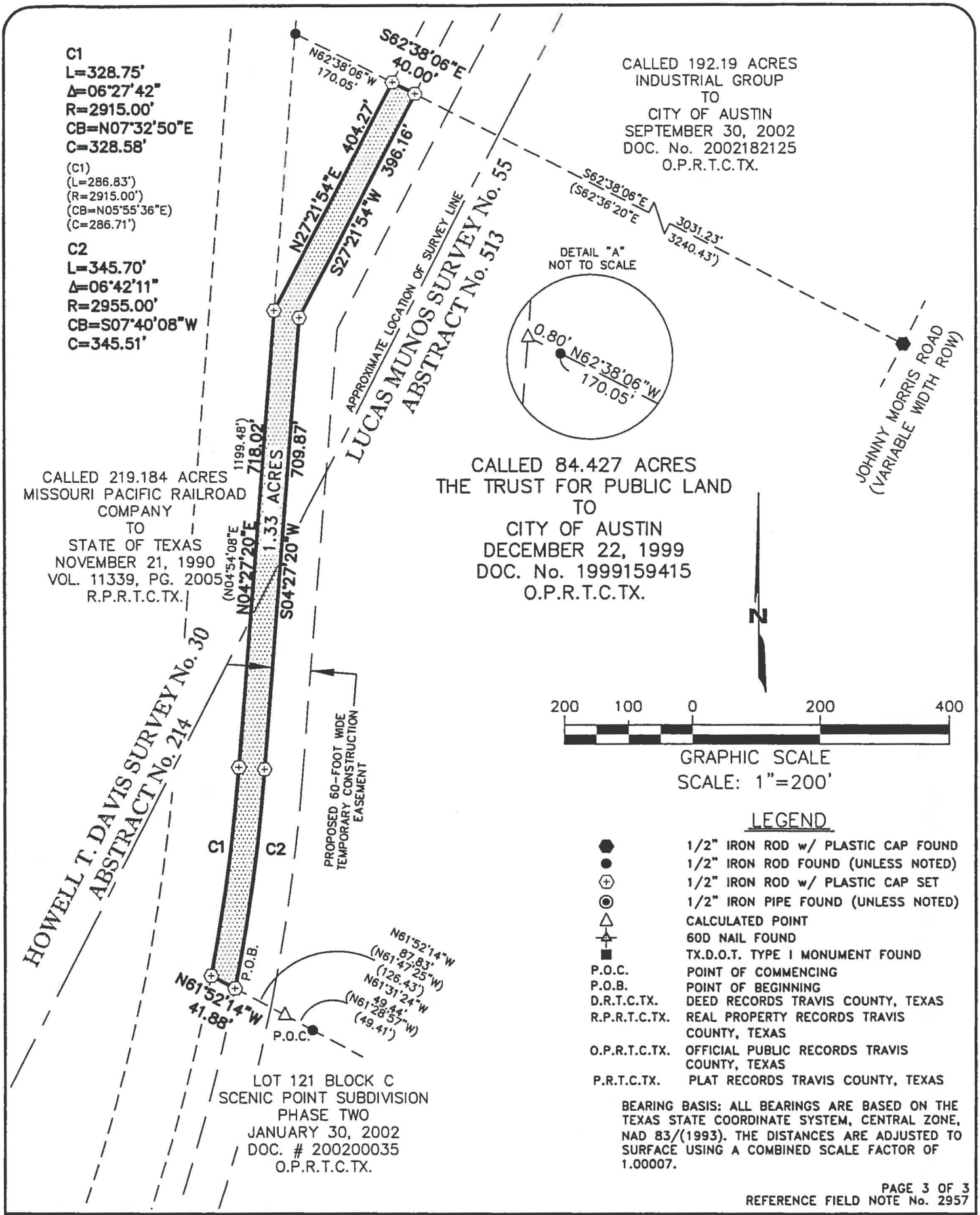
PLFUGERVILLE RAW WATERLINE

COA PARD Tract 2
Temporary and Permanent Easement Plats



LOT 121 BLOCK C
SCENIC POINT SUBDIVISION
PHASE TWO
JANUARY 30, 2002
DOC. # 200200035
O.P.R.T.C.TX.

LEGEND

⬢	1/2" IRON ROD w/ PLASTIC CAP FOUND
●	1/2" IRON ROD FOUND (UNLESS NOTED)
⊕	1/2" IRON ROD w/ PLASTIC CAP SET
◉	1/2" IRON PIPE FOUND (UNLESS NOTED)
△	CALCULATED POINT
⌖	60D NAIL FOUND
■	TX.D.O.T. TYPE I MONUMENT FOUND
P.O.C.	POINT OF COMMENCING
P.O.B.	POINT OF BEGINNING
D.R.T.C.TX.	DEED RECORDS TRAVIS COUNTY, TEXAS
R.P.R.T.C.TX.	REAL PROPERTY RECORDS TRAVIS COUNTY, TEXAS
O.P.R.T.C.TX.	OFFICIAL PUBLIC RECORDS TRAVIS COUNTY, TEXAS
P.R.T.C.TX.	PLAT RECORDS TRAVIS COUNTY, TEXAS

BEARING BASIS: ALL BEARINGS ARE BASED ON THE TEXAS STATE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83/(1993). THE DISTANCES ARE ADJUSTED TO SURFACE USING A COMBINED SCALE FACTOR OF 1.00007.

REFERENCE FIELD NOTE No. 2957

PROJECT:	PFLUGERVILLE RAW WL
JOB NUMBER:	22259E-01
DATE:	MAY, 2003
SURVEYOR:	PLE
PARTY CHIEF:	LG
FIELDBOOK:	3223
FIELDNOTE:	FN2957
TECHNICIAN:	TWH
DRAWING:	FN2957.DWG
SCALE:	1"=200'

SAM INC.
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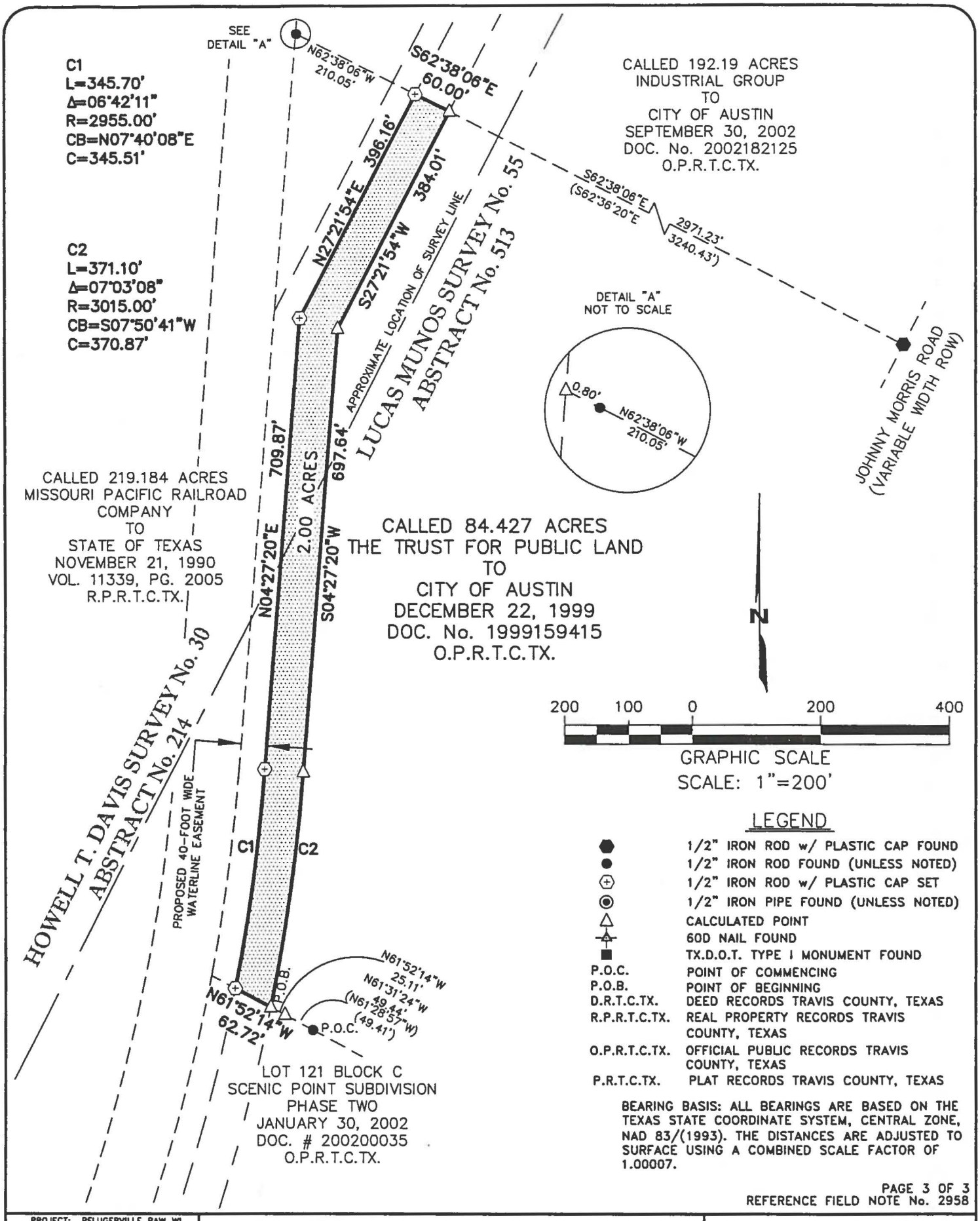
EMAIL: SAM@SAMINCAUS.COM

EASEMENT PLAT SHOWING
PARCEL No. 160
PROPERTY OF
CITY OF AUSTIN
PLFUGERVILLE RAW WATERLINE



LEGEND

⬢	1/2" IRON ROD w/ PLASTIC CAP FOUND
●	1/2" IRON ROD FOUND (UNLESS NOTED)
⊕	1/2" IRON ROD w/ PLASTIC CAP SET
◉	1/2" IRON PIPE FOUND (UNLESS NOTED)
△	CALCULATED POINT
⊹	60D NAIL FOUND
■	TX.D.O.T. TYPE I MONUMENT FOUND
P.O.C.	POINT OF COMMENCING
P.O.B.	POINT OF BEGINNING
D.R.T.C.TX.	DEED RECORDS TRAVIS COUNTY, TEXAS
R.P.R.T.C.TX.	REAL PROPERTY RECORDS TRAVIS COUNTY, TEXAS
O.P.R.T.C.TX.	OFFICIAL PUBLIC RECORDS TRAVIS COUNTY, TEXAS
P.R.T.C.TX.	PLAT RECORDS TRAVIS COUNTY, TEXAS

BEARING BASIS: ALL BEARINGS ARE BASED ON THE TEXAS STATE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83/(1993). THE DISTANCES ARE ADJUSTED TO SURFACE USING A COMBINED SCALE FACTOR OF 1.00007.

REFERENCE FIELD NOTE No. 2958

PROJECT:	PFLUGERVILLE RAW WL
JOB NUMBER:	22259E-01
DATE:	MAY, 2003
SURVEYOR:	PLE
PARTY CHIEF:	LG
FIELDBOOK:	3223
FIELDNOTE:	FN2958
TECHNICIAN:	TWH
DRAWING:	FN2958.DWG
SCALE:	1"=200'

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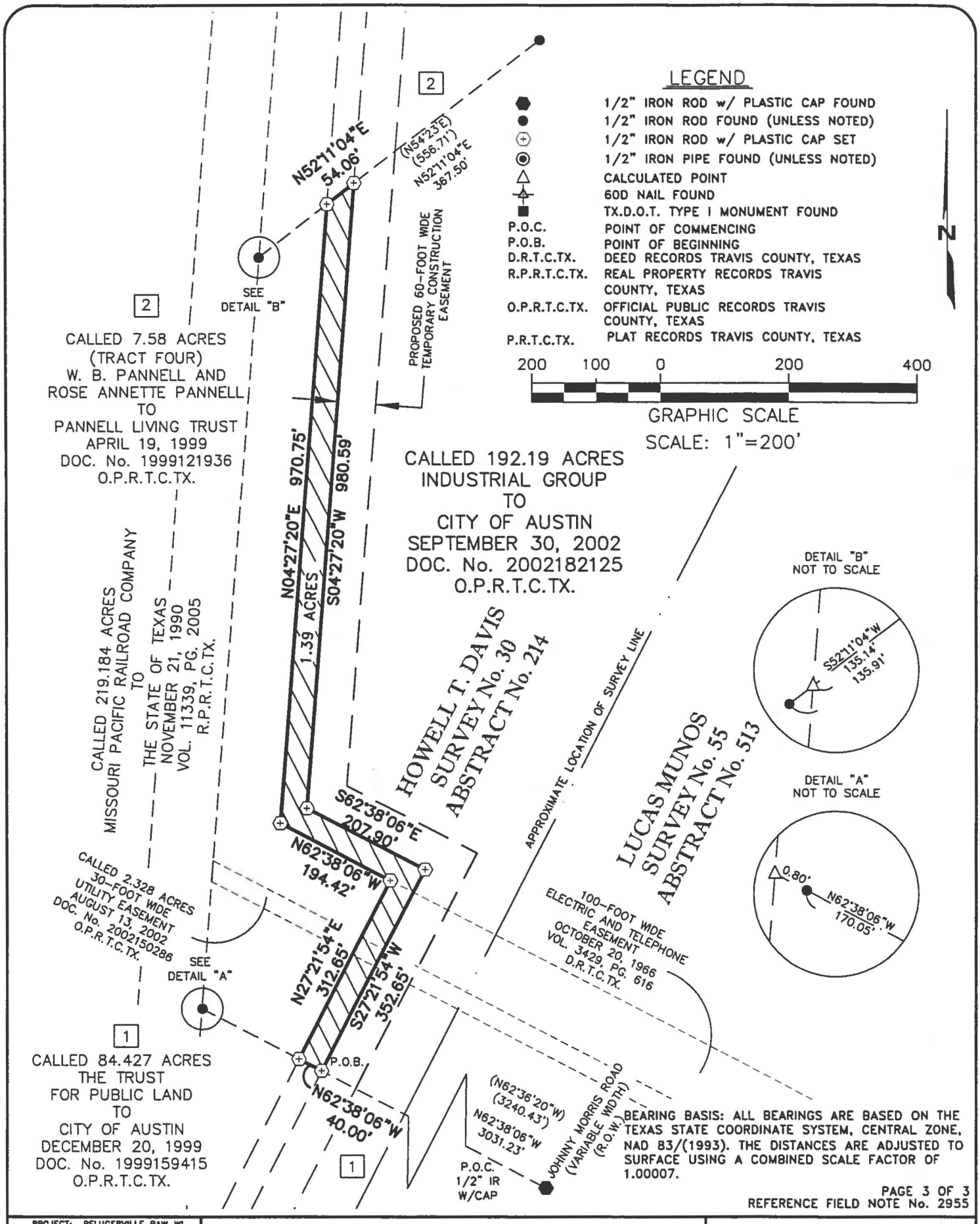
EMAIL: SAM@SAMINCAUS.COM

EASEMENT PLAT SHOWING
PARCEL No. 160
PROPERTY OF
CITY OF AUSTIN
PLFUGERVILLE RAW WATERLINE

COA PARD Tract 3
Temporary and Permanent Easement Plats



BEARING BASIS: ALL BEARINGS ARE BASED ON THE TEXAS STATE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83/(1993). THE DISTANCES ARE ADJUSTED TO SURFACE USING A COMBINED SCALE FACTOR OF 1.00007.

REFERENCE FIELD NOTE No. 2955

PROJECT:	PFLUGERVILLE RAW WL
JOB NUMBER:	22259E-01
DATE:	MAY 2003
SURVEYOR:	PLE
PARTY CHIEF:	LG
FIELDBOOK:	3223
FIELDNOTE:	FN2955
TECHNICIAN:	DS
DRAWING:	FN2955.DWG
SCALE:	1" = 200'

SAM inc.
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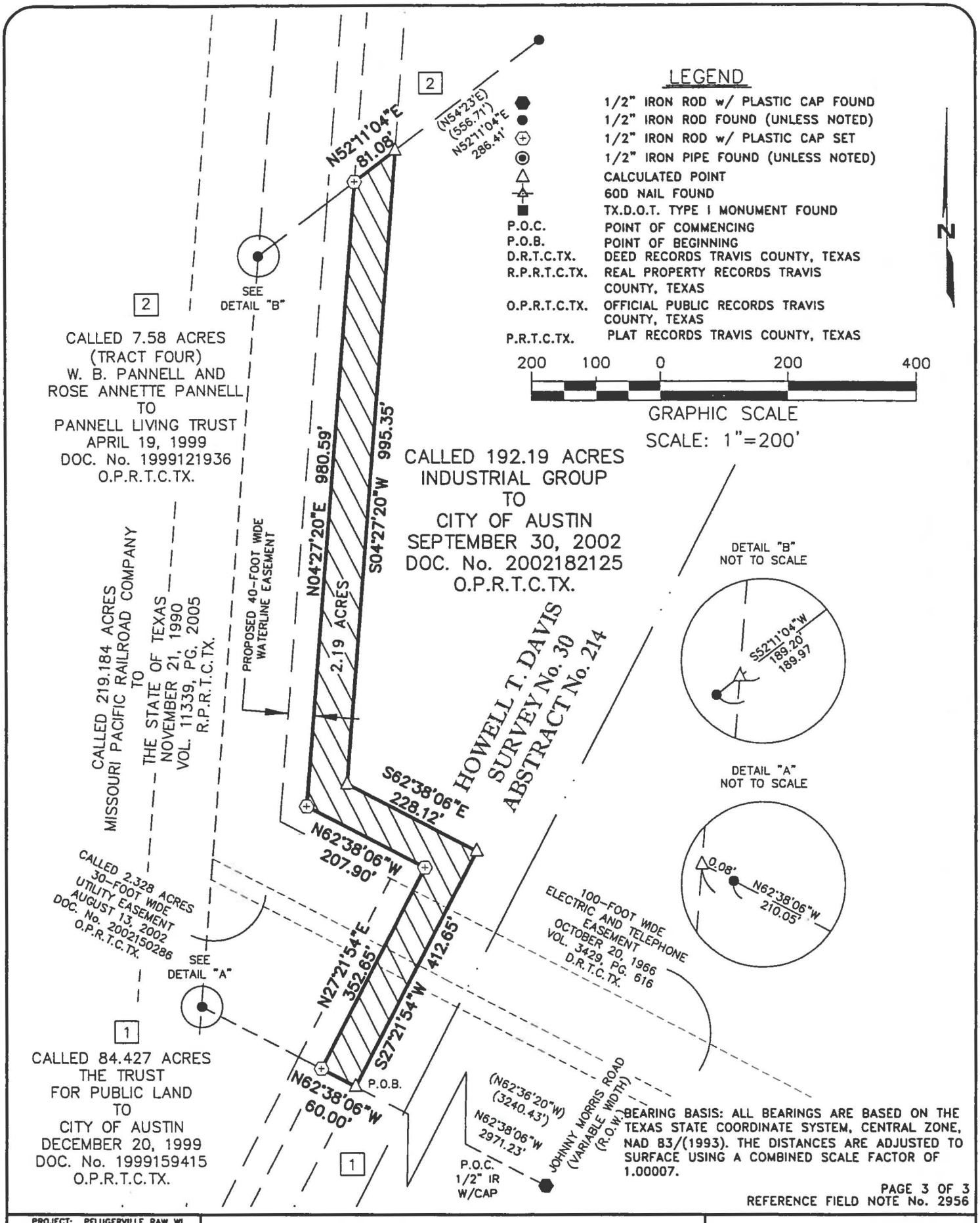
Fax: (512) 326-3029
EMAIL: SAM@SAMINCAUS.COM

EASEMENT PLAT SHOWING
PARCEL No. 170
PROPERTY OF
THE CITY OF AUSTIN
PLFUGERVILLE RAW WATERLINE



BEARING BASIS: ALL BEARINGS ARE BASED ON THE TEXAS STATE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83/(1993). THE DISTANCES ARE ADJUSTED TO SURFACE USING A COMBINED SCALE FACTOR OF 1.00007.

REFERENCE FIELD NOTE No. 2956

PROJECT:	PFLUGERVILLE RAW WL
JOB NUMBER:	22259E-01
DATE:	MAY 2003
SURVEYOR:	PLE
PARTY CHIEF:	LG
FIELDBOOK:	3223
FIELDNOTE:	FN2956
TECHNICIAN:	DS
DRAWING:	FN2956.DWG
SCALE:	1"= 200'

SAM inc.
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AUSTIN TEXAS, 78735
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Fax: (512) 326-3029
EMAIL: SAM@SAMINCAUS.COM

EASEMENT PLAT SHOWING
PARCEL No. 170
PROPERTY OF
THE CITY OF AUSTIN
PLFUGERVILLE RAW WATERLINE

Appendix B
Tree Survey Summary
COA PARD Tracts 1,2, and 3

COA PARD - Tract 1						
		Diameter (inches)				
Tree Tag No.	Tree Type	Tree 1	Tree 2	Tree 3	Protect/ Remove	COA Tree Class
6007	DWD	12			R	2
6008	HBY	8			R	4
6009	CHBY	9	9		R	4
6015	PEC	30			P	1
6016	PEC	36			R	1
6021	UNK	13			R	2
6022	HBY	8			P	4
6023	HBY	10			P	4
6024	HBY	12			P	4
6025	HBY	12			R	4
6026	PEC	36			P	1
6027	PEC	48			P	1
7684	ELM	20			P	1
7685	ELM	15			P	1
7687	PEC	15	16	18	P	1
7688	PEC	30			P	1
7689	HBY	24			P	4
7693	PEC	44			P	1
7694	ELM	22			P	1
7695	HBY	26			P	4

All Tree Survey Sum	**473 caliper inches**
Total Tree's Protected	**374 caliper inches**
Total Tree's Removed (COA Type 1)	**36 caliper inches**
Total Tree's Removed (COA Type 2)	**25 caliper inches**
Total Tree's Removed (COA Type 3)	**0 caliper inches**
Total Tree's Removed (COA Type 4)	**38 caliper inches**
Total Trees Removed	**99 caliper inches**
Proposed Tree Replacement at 50% of Removed (COA Type 1)	**18 caliper inches**
Proposed Tree Replacement at 45% of Removed (COA Type 2)	**12 caliper inches**
Proposed Tree Replacement at 35% of Removed (COA Type 3)	**0 caliper inches**
Proposed Tree Replacement at 25% of Removed (COA Type 4)	**10 caliper inches**
Total Proposed Tree Replacement	**40 caliper inches**

COA PARD - Tract 2							
		Diameter (inches)					
Tree Tag No.	Tree Type	Tree 1	Tree 2	Tree 3	Tree 4	Protect/Remove	COA Tree Class
6055	ELM	9				R	1
6056	ELM	11				R	1
8157	ELM	13				R	1
8159	ELM	10				R	1
8160	ELM	8				R	1
8161	ELM	10				R	1
8162	ELM	9	5			R	1
8163	ELM	9	13			R	1
8164	ELM	9				R	1
8165	ELM	10				R	1
8166	ELM	9				R	1
8167	ELM	14				R	1
8168	ELM	20				P	1
8169	ELM	13				R	1
8170	ELM	12				R	1
8173	ELM	16				R	1
8174	MSQ	8	8			R	3
8175	ELM	10				R	1
8176	MSQ	10				R	3
8177	ELM	10				R	1
8178	ELM	8				R	1
8179	MSQ	9				R	3
8180	ELM	8				R	1
8181	ELM	9				R	1
8182	MSQ	9				R	3
8183	MSQ	9				R	3
8184	ELM	8				R	1
8185	ELM	12				R	1
8186	ELM	11				R	1
8187	ELM	8				R	1
8188	ELM	11				R	1
8189	ELM	13				R	1
8190	ELM	11				R	1
8191	ELM	11				R	1
8193	MSQ	11				R	3
8194	MSQ	9				R	3
8195	MSQ	17				R	3
8196	MSQ	12	9	8		R	3
8197	ELM	8				R	1
8198	ELM	13				R	1
8199	ELM	9				R	1
8200	MSQ	14				R	3
8201	ELM	10				R	1
8203	ELM	8				R	1
8204	MSQ	8	5			R	3
8205	ELM	8				R	1
8206	MSQ	8				R	3
8207	MSQ	10				R	3
8208	ELM	16				R	1
8209	MSQ	9				R	3
8210	ELM	9				R	1
8211	ELM	14				R	1
8213	MSQ	8	10			R	3
8214	MSQ	11	11			R	3
8215	MSQ	10	9	8	8	R	3
8216	MSQ	9				R	3
8217	ELM	9				R	1
8218	ELM	8				R	1
8219	ELM	14				R	1

COA PARD - Tract 2							
		Diameter (inches)					
Tree Tag No.	Tree Type	Tree 1	Tree 2	Tree 3	Tree 4	Protect/Remove	COA Tree Class
8220	ELM	9				R	1
8221	MSQ	8				R	3
8222	ELM	9				R	1
8223	MSQ	9				R	3
8224	ELM	12				R	1
8225	MSQ	9				R	3
8226	MSQ	8				R	3
8227	MSQ	15				R	3
8228	MSQ	9				R	3
8229	MSQ	12				R	3
8230	MSQ	8				R	3
8231	ELM	10				R	1
8232	MSQ	11				R	3
8233	MSQ	8				R	3
8234	MSQ	10	5	5		R	3
8235	MSQ	9	7			R	3
8236	ELM	11				R	1
8237	MSQ	14				R	3
8238	MSQ	10				R	3
8240	MSQ	8				R	3
8241	MSQ	11	9			R	3
8242	ELM	8				R	1
8243	MSQ	8				R	3
8244	ELM	11				R	1
8245	MSQ	10	8			R	3
8246	MSQ	20	9			P	3
8247	MSQ	10	7			R	3
8248	MSQ	14				R	3
8249	MSQ	9				R	3
8250	MSQ	9				R	3
8252	MSQ	14				R	3
8253	ELM	8				R	1
8254	MSQ	9	7			R	3
8255	MSQ	10				R	3
8256	MSQ	8				R	3
8257	MSQ	10				R	3
8258	MSQ	8	7			R	3
8259	MSQ	13	9			R	3
8261	ELM	15				R	1
8262	ELM	8				R	1
8263	MSQ	10				R	3
8264	ELM	9				R	1
8265	MSQ	10	7			R	3
8267	ELM	12				R	1
8268	ELM	8	9			R	1
8269	ELM	9				R	1
8270	ELM	8				R	1
8272	ELM	9				R	1
8273	ELM	15				R	1
8274	ELM	9				R	1
8275	ELM	17				R	1
8276	ELM	9				R	1
8277	ELM	10				R	1

COA PARD - Tract 2

All Tree Survey Sum	1349 caliper inches
Total Tree's Protected	49 caliper inches
Total Tree's Removed (COA Type 1)	661 caliper inches
Total Tree's Removed (COA Type 2)	0 caliper inches
Total Tree's Removed (COA Type 3)	639 caliper inches
Total Tree's Removed (COA Type 4)	0 caliper inches
Total Trees Removed	1300 caliper inches
Proposed Tree Replacement at 50% of Removed (COA Type 1)	331 caliper inches
Proposed Tree Replacement at 45% of Removed (COA Type 2)	0 caliper inches
Proposed Tree Replacement at 35% of Removed (COA Type 3)	224 caliper inches
Proposed Tree Replacement at 25% of Removed (COA Type 4)	0 caliper inches
Total Proposed Tree Replacement	555 caliper inches

COA PARD - Tract 3							
		Diameter (inches)					
Tree Tag No.	Tree Type	Tree 1	Tree 2	Tree 3	Tree 4	Protect/Remove	COA Tree Class
6028	ELM	9				R	1
6029	ELM	8				R	1
6030	ELM	10				R	1
6031	ELM	9				R	1
6032	ELM	8				R	1
6033	ELM	8				R	1
6034	ELM	10				R	1
6035	ELM	6	6	10	12	R	1
6036	ELM	8				R	1
6037	ELM	8				R	1
6038	ELM	8				R	1
6039	ELM	9				R	1
6040	ELM	7	8			R	1
6041	MSQT	7	10			R	3
6042	ELM	4	7	8		R	1
6043	ELM	9				R	1
6044	ELM	4	10			R	1
6045	ELM	4	9	9	10	R	1
6046	UNK	10				R	2
6047	UNK	9				R	2
6048	ELM	9	10			R	1
6054	ELM	6	8			R	1

All Tree Survey Sum	**287 caliper inches**
Total Tree's Protected	**0 caliper inches**
Total Tree's Removed (COA Type 1)	**251 caliper inches**
Total Tree's Removed (COA Type 2)	**19 caliper inches**
Total Tree's Removed (COA Type 3)	**17 caliper inches**
Total Tree's Removed (COA Type 4)	**0 caliper inches**
Total Trees Removed	**287 caliper inches**
Proposed Tree Replacement at 50% of Removed (COA Type 1)	**126 caliper inches**
Proposed Tree Replacement at 45% of Removed (COA Type 2)	**9 caliper inches**
Proposed Tree Replacement at 35% of Removed (COA Type 3)	**6 caliper inches**
Proposed Tree Replacement at 25% of Removed (COA Type 4)	**0 caliper inches**
Total Proposed Tree Replacement	**141 caliper inches**

Austin Parks and Recreation Department
Calendar of Events

JUNE 2003

*75th Anniversary
Celebrate Aquatics

June	Austin Farmer's Mark 8:30am-12pm		Republic Square
June 1	Cooking with Corn	837-1215	Pioneer Farm
June 2	Renaissance Market Commission mtg. 6pm Rm. 20N		Dougherty Arts Center
June 2	Summer Camps		Dougherty Arts Center & Pioneer Farm
June 2-July 16	National Junior Tennis League 8:30am-12pm		Various Park sites
June 2-4	Scope of Service Worksession 6:30 pm		Waller Creek Center Rm. 105
June 2-Aug 8	Annual Summer Day Camp-1wk sessions	476-5662	Austin Rec Center
June 3	Noontime concerts		Republic Square Park
June 3-5	Regional Trans Am Junior Golf Tournament		Jimmy Clay/Roy Kiezer Golf Course
June 4	Wednesday night concerts		Waterloo Park
June 5	TAAF Regional Youth Track Meet 5-8pm		Burger Stadium
June 6-7	"Ballet Under the Stars" 8:30pm	397-1463	Zilker Hillside Theater
June 6-8	Fast Pitch Softball National Qualifier		Krieg Softball Complex

June 7	National Trails Day Ribbon Cutting Ceremony 12 pm		Roy G. Guerrero Park Hike & Bike Trail
June 7	Deep Eddy Fundraiser Event 5- 9pm		
June 7-8	Men's Garden Club Show	327-8181	Austin Science Center
June 7-8	Second Youth presents The Breman Town Musicians 3pm		Dougherty Arts Center Theater
June 8	Danskin Triathlon 7am-2pm		Lake Long
June 8	Men's Crafts-carpentry&blacksmith	837-1215	Pioneer Farm
June 8	Sunday in the Park 5-9		Givens Rec. Center
June 9	Teen Recreation Academy openings		6 Rec. Centers
June 9-10	Arts Commission and Applicants Negotiation Meetings 6:30pm		Dougherty Arts Center Theater
June 10	Children and ART 6-8pm	397-1455	DAC
June 10	Computer Lab Ribbon Cutting Ceremony 10 am		Rosewood Rec Center
June 11	Summer Playground Opening Ceremonies		Auditorium Shores
June 12	Father's Day Program 10:45-11:45		Conely- Guerrero Senior Activity Center
June 12	Hershey's Regional Youth Track Meet 5-8pm		Burger Stadium
June 12	"Deep Thinkers of Philosophers Rock at the Springs 7pm	481-1466	Sheffield Ed. Center at Barton Springs Bathhouse in Zilker Park
June 14	Juneteenth Celebration 12-2pm	447-5875	Dove Springs
June 14	Pre-Juneteenth Family Picnic's In the Park 11am-3pm	926-3491	Dottie Jordan Rec Center
June 15	"Father's Day in the Park" 7pm	397-1463	Zilker Hillside Theater
June 15	Juneteenth Celebration	837-1215	Pioneer Farm
June 20-21	"Pop's Concerts in the Park" 7pm	397-1463	Zilker Hillside Theater
June 22	Dairy Day	837-1215	Pioneer Farm
June 29	Getting Hitched-1880s Wedding	837-1215	Pioneer Farm

2003 YEAR PLANNER

FIRST QUARTER

JANUARY

SUN	MON	TUE	WED	THU	FRI	SAT
			1 USA CAN	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20 USA	21	22	23	24	25
26	27	28	29	30	31	

FEBRUARY

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17 USA	18	19	20	21	22
23	24	25	26	27	28	

MARCH

SUN	MON	TUE	WED	THU	FRI	SAT
2	3	4	5	6	7	1 8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

SECOND QUARTER

APRIL

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17 ✡	18 USA CAN	19
20	21	22	23	24	25	26
27	28	29	30			

MAY

SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19 CAN	20	21	22	23	24
25	26 USA	27	28	29	30	31

JUNE

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24 CAN	25	26	27	28
29	30					

THIRD QUARTER

JULY

SUN	MON	TUE	WED	THU	FRI	SAT
		1 CAN	2	3	4 USA	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

AUGUST

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4 CAN	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24 31	25	26	27	28	29	30

SEPTEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
	1 USA CAN	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27 ✡
28	29	30				

FOURTH QUARTER

OCTOBER

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6 ✡	7	8	9	10	11
12	13 USA CAN	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

NOVEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11 USA CAN	12	13	14	15
16	17	18	19	20	21	22
23 30	24	25	26	27 USA	28	29

DECEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20 ✡
21	22	23	24	25 USA CAN	26 CAN	27
28	29	30	31			

USA UNITED STATES NATIONAL/STATE HOLIDAYS

CAN CANADIAN NATIONAL/PROVINCIAL HOLIDAYS

✡ JEWISH HOLIDAYS

The Jewish day begins and ends at sundown, thus all holidays begin at sundown of the day preceding the date shown

Item # PS0203